F. R. Patch
1
Mfg. Co.

Wm. H. Haskell Co.
1898

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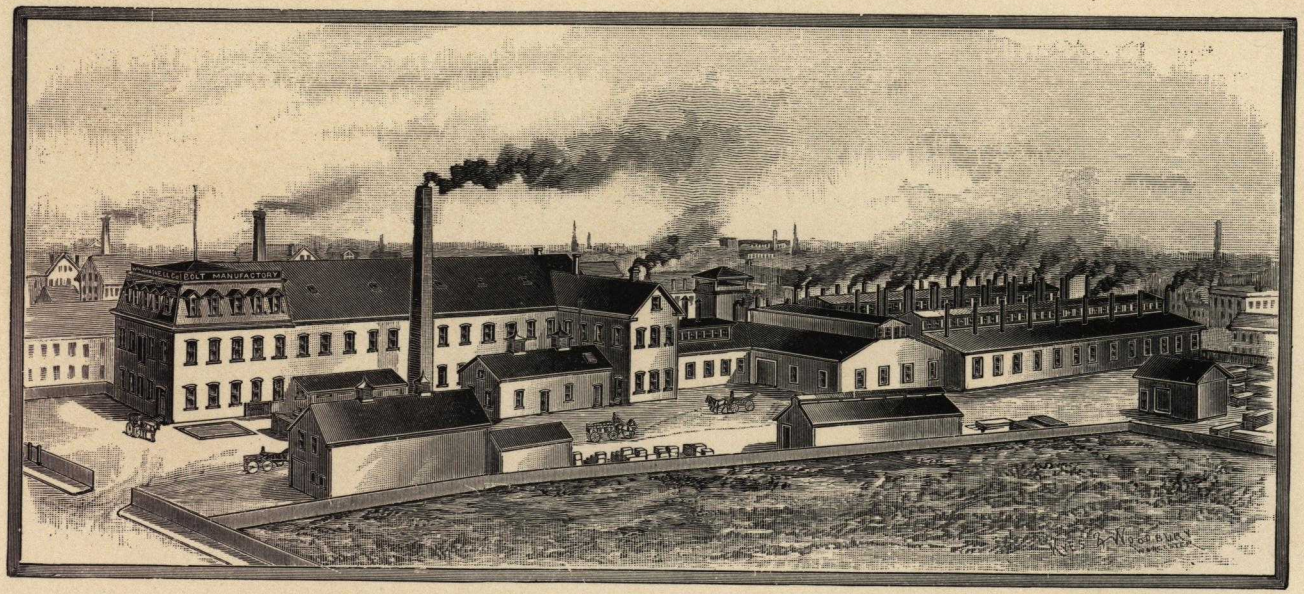
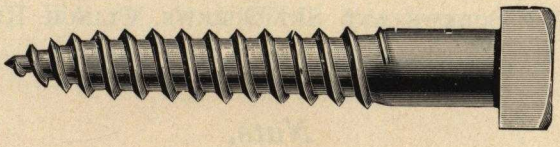
704


MANCHESTER BOLT MANUFACTORY

ESTABLISHED 1856.

INCORPORATED 1882.

Wm. H. Haskell Company,



Pawtucket, Rhode Island,

U. S. A.

PRESS OF
SPRINGFIELD PRINTING AND BINDING COMPANY,
SPRINGFIELD, MASS.

Wm. H. Haskell Company

MANUFACTURE

Gimlet Pointed Coach Screws, Machine Bolts,

With Round, Square, and Hexagon Heads,

Plow and Cultivator Bolts, Tap Bolts,

MILLED CAP SCREWS AND SET SCREWS, CLINCH RINGS, COLD PUNCHED SQUARE AND HEXAGON

Nuts,

CLEARER SPRINGS, CHAIN LINKS, LEVERS AND STIRRUPS, RODS, BOLTS, AND

Iron Work for Buildings.

OFFICE AND WORKS,

451 MAIN STREET, PAWTUCKET, RHODE ISLAND,

U. S. A.

Wm. H. Haskell Company.

WM. H. HASKELL, President.

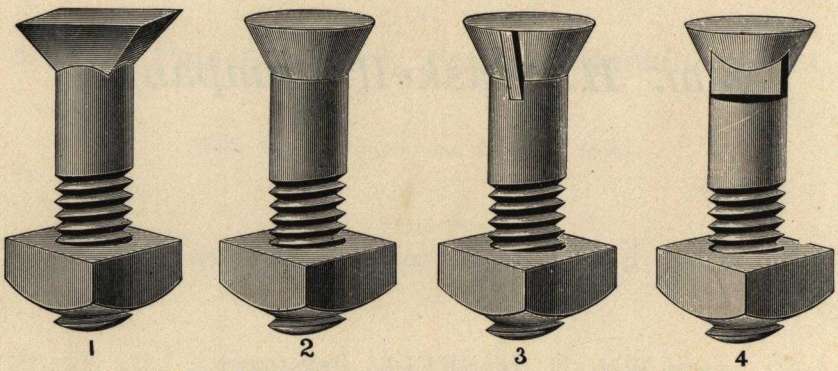
E. S. MASON, Treasurer.

D. A. HUNT, Agent.

1898.

Plow Bolts.

Finished Points and Fitted with Chamfered and Trimmed Nuts.

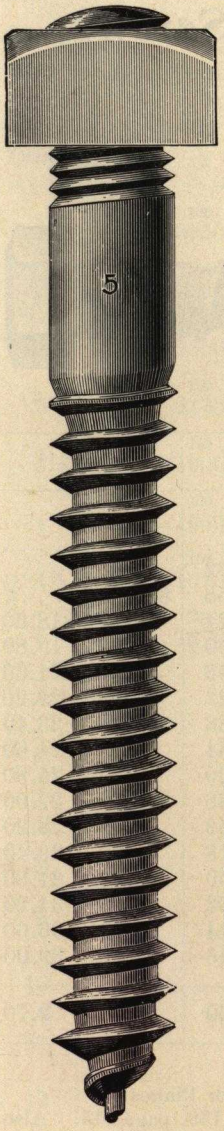


With right or left hand thread, as may be ordered.

PRICE PER HUNDRED.

Diam.	5/16 inch.	3/8 inch.	7/16 inch.	1/2 inch.	9/16 inch.	5/8 inch.	3/4 inch.
Length over all. 1¼	$1.70	$2.00	$2.60	$3.50	$4.50	$5.70	$8.90
1½	1.80	2.10	2.75	3.70	4.75	6.00	8.90
1¾	1.90	2.20	2.90	3.90	5.00	6.30	9.20
2	2.00	2.30	3.05	4.10	5.25	6.60	9.50
2¼	2.10	2.40	3.20	4.30	5.50	6.90	9.80
2½	2.20	2.50	3 35	4.50	5.75	7.20	10.10
2¾	2.30	2.60	3.50	4.70	6.00	7.50	10.40
3	2.40	2.70	3.65	4.90	6.25	7.80	10.70
3¼	2.50	2.80	3.80	5.10	6.50	8.10	11.00
3½	2.60	2.90	3.95	5.30	6.75	8.40	11.30
3¾	2.70	3.00	4.10	5.50	7.00	8.70	11.60
4	2.80	3.10	4.25	5.70	7.25	9.00	11.90
4½	3.00	3.35	4.55	6.00	7.65	9.40	12.40
5	3.25	3.60	4.85	6.30	8.10	9.80	12.90
5½	. . .	. . .	5.20	6.60	8.60	10.25	13.40
6	. . .	. . .	5.55	6.90	9.10	10.75	14.00

Hexagon Nuts, 10 per cent. extra.



Hanger Screws.

Diameter.	Length Over All.	Per Pound.
½	4 to 6 inches	$0.21
⅝	5 to 7 inches	.17
¾	6 to 8 inches	.15
⅞	7 to 9 inches	.14
1	8 to 12 inches	.14

Hexagon Nuts, 10 per cent. extra.

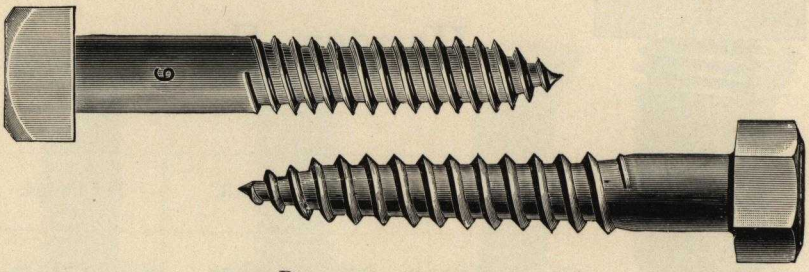
We were the first to introduce Screws of this style for hanging shafting, and have furnished them to a large number of customers, who have used them to great advantage over the old style Bolt.

Any Size or Length made to order.

MANUFACTURERS' STANDARD LIST.

Gimlet Pointed Coach Screws.

IN KEGS OF 150 POUNDS.



PRICE PER HUNDRED.

Length under Head. / Diam.	¼ & 5/16	⅜	7/16	½	9/16 & ⅝	¾	⅞	1
1½	$2.25	$2.70	$3.15	$3.75	. . .	. . .	. . . .	. . . .
2	2.40	2.88	3.39	4.05	$4.95	. . .	. . . .	. . . .
2½	2.55	3.06	3.63	4.35	5.40	$7.92	. . . .	. . . .
3	2.70	3.24	3.87	4.65	5.85	8.58	$12.30	. . . .
3½	2.85	3.42	4.11	4.95	6.30	9.24	13.20	$18.60
4	3.00	3.60	4.35	5.25	6.75	9.90	14.10	19.80
4½	3.15	3.78	4.59	5.55	7.20	10.56	15.00	21.00
5	3.30	3.96	4.83	5.85	7.65	11.22	15.90	22.20
5½	3.45	4.14	5.07	6.15	8.10	11.88	16.80	23.40
6	3.60	4.32	5.31	6.45	8.55	12.54	17.70	24.60
6½	. . .	. . .	5.55	6.75	9.00	13.20	18.60	25.80
7	. . .	. . .	5.79	7.05	9.45	13.86	19.50	27.00
7½	. . .	. . .	6.03	7.35	9.90	14.52	20.40	28.20
8	. . .	. . .	6.27	7.65	10.35	15.18	21.30	29.40
9	. . .	. . .	6.75	8.25	11.25	16.50	23.10	31.80
10	. . .	. . .	. . .	8.85	12.15	17.82	24.90	34.20
11	. . .	. . .	. . .	9.45	13.05	19.14	26.70	36.60
12	. . .	. . .	. . .	10.05	13.95	20.46	28.50	39.00
Add per in. or fraction	.45	.55	.70	.80	1.15	1.60	2.10	2.70

Hexagon Heads, 10 per cent. extra.

Hexagon Head Coach Screws made to order, all sizes, for Pianos.

Round Countersunk Head Railroad Screws, see cut No. 139, page 145. Also Brass, Copper, and Tobin Bronze Screws. Also Galvanized Screws. Fetter Drive Screws.

For Size of Heads, see page 11.

For Length and Number of Threads, see page 20.

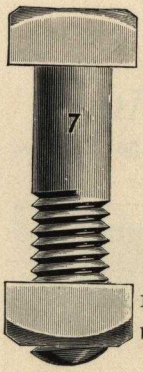
Table

GIVING THE NUMBER OF COACH SCREWS IN A KEG OF 150 POUNDS.

Length under Head. \ Diam.	¼	5/16	⅜	7/16	½	9/16	⅝	¾	⅞	1
1½	100 6060	100 3750	100 2425	100 1520	100 1225	. . .	. . .	. . .	. . .	. . .
2	100 4700	100 3050	100 2000	100 1390	100 1020	100 770	25 630	. . .	. . .	. . .
2½	100 3923	100 2650	100 1650	100 1160	100 880	50 760	25 525	. . .	. . .	. . .
3	100 3468	100 2225	100 1425	100 1075	50 760	50 650	25 480	296	. . .	. . .
3½	100 3250	100 1900	100 1260	100 920	50 670	50 550	25 420	273	. . .	. . .
4	100 2670	100 1660	100 1160	100 835	50 600	50 467	25 384	244	. . .	. . .
4½	. . .	100 1520	100 1050	50 775	50 555	50 450	25 346	236	. . .	. . .
5	. . .	100 1370	50 930	50 695	50 512	50 414	25 319	209	153	122
5½	. . .	. . .	50 865	50 660	50 465	25 372	25 298	190	142	114
6	. . .	. . .	50 820	50 595	50 440	25 351	25 280	189	132	104
7	. . .	. . .	50 700	50 530	50 380	25 320	25 242	157	120	90
8	. . .	. . .	50 620	50 465	25 350	25 280	25 218	143	105	81
9	. . .	. . .	. . .	. . .	303	250	192	128	98	74
10	. . .	. . .	. . .	. . .	268	215	178	118	88	67
11	. . .	. . .	. . .	. . .	251	180	159	107	82	63
12	. . .	. . .	. . .	. . .	234	162	146	97	71	60

When specially ordered, we pack in Paper Boxes up to 8 × ⅝.

The small figures give the number of Screws in each Paper Box.



MANUFACTURERS' STANDARD LIST.

Machine Bolts.

Square Heads.

COLD PUNCHED,
CHAMFERED AND TRIMMED NUTS,
FINISHED POINTS.

Hexagon Nuts, 10 per cent. extra; Hexagon Heads and Nuts, 20 per cent. extra.

Bolts with Heads or Nuts different from Standard, will be charged extra.

PRICE PER HUNDRED.

Diam. / Length under Head.	¼	5/16	⅜	7/16	½	9/16 & ⅝	¾	⅞	1	1⅛*	1¼*
1½	$1.70	$2.00	$2.40	$2.80	$3.60	$5.20	$7.20	$10.00	$14.40	$22.50	$30.00
2	1.78	2.10	2.52	2.96	3.80	5.50	7.64	10.60	15.20	23.55	31.35
2½	1.86	2.20	2.64	3.12	4.00	5.80	8.08	11.20	16.00	24.60	32.70
3	1.94	2.30	2.76	3.28	4.20	6.10	8.52	11.80	16.80	25.65	34.05
3½	2.02	2.40	2.88	3.44	4.40	6.40	8.96	12.40	17.60	26.70	35.40
4	2.10	2.50	3.00	3.60	4.60	6.70	9.40	13.00	18.40	27.75	36.75
4½	2.18	2.60	3.12	3.76	4.80	7.00	9.84	13.60	19.20	28.80	38.10
5	2.26	2.70	3.24	3.92	5.00	7.30	10.28	14.20	20.00	29.85	39.45
5½	2.34	2.80	3.36	4.08	5.20	7.60	10.72	14.80	20.80	30.90	40.80
6	2.42	2.90	3.48	4.24	5.40	7.90	11.16	15.40	21.60	31.95	42.15
6½	2.50	3.00	3.60	4.40	5.60	8.20	11.60	16.00	22.40	33.00	43.50
7	2.58	3.10	3.72	4.56	5.80	8.50	12 04	16.60	23.20	34.05	44.85
7½	2.66	3.20	3.84	4.72	6.00	8.80	12.48	17.20	24.00	35.10	46.20
8	2.74	3.30	3.96	4.88	6.20	9.10	12.92	17.80	24.80	36.15	47.55
9	2.90	3.50	4.20	5.20	6.60	9.70	13.80	19.00	26.40	38.25	50.25
10	3.06	3.70	4.44	5.52	7.00	10.30	14.68	20.20	28.00	40.35	52.95
11	3.22	3.90	4.68	5.84	7.40	10.90	15.56	21.40	29.60	42.45	55.65
12	3.38	4.10	4.92	6.16	7.80	11.50	16.44	22.60	31.20	44.55	58.35
13	....	....	5.16	6.48	8.20	12.10	17.32	23.80	32.80	46.65	61.05
14	....	....	5.40	6.80	8.60	12.70	18.20	25 00	34.40	48.75	63.75
15	....	....	5.64	7.12	9.00	13.30	19.08	26.20	36.00	50.85	66.45
16	....	....	5.88	7.44	9.40	13.90	19.96	27.40	37.60	52.95	69.15
17	....	....	....	....	9.80	14.50	20.84	28.60	39.20	55.05	71.85
18	....	....	....	....	10.20	15.10	21.72	29.80	40.80	57.15	74.55
19	....	....	....	....	10.60	15.70	22.60	31.00	42.40	59.25	77.25
20	....	....	....	....	11.00	16.30	23.48	32.20	44.00	61.35	79.95
21	....	....	....	....	....	....	24.36	33.40	45.60	63.45	82.65
22	....	....	....	....	....	....	25.24	34.60	47.20	65.55	85.35
23	....	....	....	....	....	....	26.12	35.80	48.80	67.65	88.05
24	....	....	....	....	....	....	27.00	37.00	50.40	69.75	90.75
25	....	....	....	....	....	....	27.88	38.20	52.00	71.85	93.45
26	....	....	....	....	....	....	28.76	39.40	53.60	73.95	96.15
27	....	....	....	....	....	....	29.64	40.60	55.20	76.05	98.85
28	....	....	....	....	....	....	30.52	41.80	56.80	78.15	101.55
29	....	....	....	....	....	....	31.40	43.00	58.40	80.25	104.25
30	....	....	....	....	....	....	32.28	44.20	60.00	82.35	106.95

* The List Price for these sizes apply only to 100 lots.

Joint Bolts with Oblong Nuts, 10 per cent. advance; the same with Hexagon Heads, 20 per cent.; with Square Heads and Square Nuts, 5 per cent.

Price for Bolts 3/16 inch in diameter quoted when wanted.

Copper and Tobin Bronze Bolts made to order.

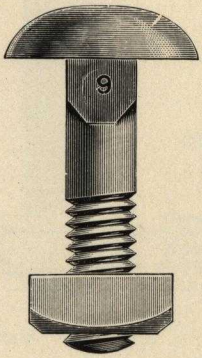
Weight of Bolts,

With Square Heads and Nuts.

PER HUNDRED.

Length under Head. Diam.	¼	5/16	⅜	7/16	½	⅝	¾	⅞	1
1½	4.00	7.00	10.50	15.20	22.50	39.50	....	....	....
1¾	4.35	7.50	11.25	16.30	23.82	41.62	....	....	....
2	4.75	8.00	12.00	17.40	25.15	43.75	69.00	108.00	....
2¼	5.15	8.50	12.75	18.50	26.47	45.88	72.00	112.25	....
2½	5.50	9.00	13.50	19.60	27.80	48.00	75.00	116.50	175.00
2¾	5.75	9.50	14.25	20.70	29.12	50.12	78.00	121.75	180.00
3	6.25	10.00	15.00	21.80	30.45	52.25	81.00	126.00	185.00
3½	7.00	11.00	16.50	24.00	33.10	56.50	87.00	134.25	196.00
4	7.75	12.00	18.00	26.20	35.75	60.75	93.10	142.50	207.00
4½	8.50	13.00	19.50	28.40	38.40	65.00	99.05	151.00	218.00
5	9.25	14.00	21.00	30.60	41.05	69.25	105.20	159.55	229.00
5½	10.00	15.00	22.50	32.80	43.70	73.50	111.25	168.00	240.00
6	10.75	16.00	24.00	35.00	46.35	77.75	117.30	176.60	251.00
6½	11.50	17.00	25.50	37.20	49.00	82.00	123.35	185.00	262.00
7	12.25	18.00	27.00	39.40	51.65	86.25	129.40	193.65	273.00
7½	13.00	19.25	28.50	41.60	54.30	90.50	135.00	202.00	284.00
8	13.75	20.75	30.00	43.80	59.60	94.75	141.50	210.70	295.00
9	....	....	34.00	48.20	64.90	103.25	153.60	227.75	317.00
10	....	....	37.50	52.60	70.20	111.75	165.70	244.80	339.00
11	....	....	41.00	57.00	75.50	120.25	177.80	261.85	360.00
12	....	....	44.50	61.40	80.80	128.75	189.90	278.90	382.00
13	....	....	....	....	86.10	137.25	202.00	295.95	404.00
14	....	....	....	....	91.40	145.75	214.10	313.00	426.00
15	....	....	....	....	96.70	154.25	226.20	330.05	448.00
16	....	....	....	....	102.00	162.75	238.30	347.10	470.00
17	....	....	....	....	107.30	171.00	250.40	364.15	492.00
18	....	....	....	....	112.60	179.50	262.60	381.20	514.00
19	....	....	....	....	117.90	188.00	274.70	398.25	536.00
20	....	....	....	....	123.20	196.50	286.80	415.30	558.00

Machine Bolts.



Round Heads.

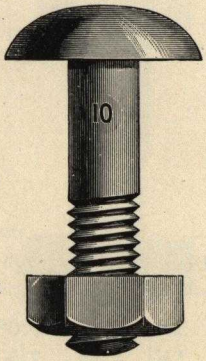
SQUARE OR ROUND UNDER HEAD.

COLD PUNCHED,
CHAMFERED AND TRIMMED NUTS,
FINISHED POINTS.

Hexagon Nuts, 10 per cent. extra.

Heads larger than standard will be charged at an advanced price.

PRICE PER HUNDRED.



Length under Head. Diam.	¼	5/16	⅜	7/16	½	9/16 & ⅝	¾	⅞	1
1½	$2.80	$3.20	$3.60	$4.60	$6.00	$9.00	$12.70	$18.80	$27.50
2	2.90	3.35	3.80	4.90	6.35	9.55	13.45	19.80	28.80
2½	3.00	3.50	4.00	5.20	6.70	10.10	14.20	20.80	30.10
3	3.10	3.65	4.20	5.50	7.05	10.65	14.95	21.80	31.40
3½	3.20	3.80	4.40	5.80	7.40	11.20	15.70	22.80	32.70
4	3.30	3.95	4.60	6.10	7.75	11.75	16.45	23.80	34.00
4½	3.40	4.10	4.80	6.40	8.10	12.30	17.20	24.80	35.30
5	3.50	4.25	5.00	6.70	8.45	12.85	17.95	25.80	36.60
5½	3.60	4.40	5.20	7.00	8.80	13.40	18.70	26.80	37.90
6	3.70	4.55	5.40	7.30	9.15	13.95	19.45	27.80	39.20
6½	3.80	4.70	5.60	7.60	9.50	14.50	20.20	28.80	40.50
7	3.90	4.85	5.80	7.90	9.85	15.05	20.95	29.80	41.80
7½	4.00	5.00	6.00	8.20	10.20	15.60	21.70	30.80	43.10
8	4.10	5.15	6.20	8.50	10.60	16.20	22.50	31.80	44.40
9	. . .	. . .	6.60	9.10	11.30	17.30	24.00	33.80	47.00
10	. . .	. . .	7.00	9.70	12.00	18.40	25.50	35.80	49.60
11	. . .	. . .	7.40	10.30	12.70	19.50	27.00	37.80	52.20
12	. . .	. . .	7.80	10.90	13.40	20.60	28.50	39.80	54.80
13	. . .	. . .	. . .	. . . .	14.10	21.70	30.00	41.80	57.40
14	. . .	. . .	. . .	. . . .	14.80	22.80	31.50	43.80	60.00
15	. . .	. . .	. . .	. . . .	15.50	23.90	33.00	45.80	62.60
16	. . .	. . .	. . .	. . . .	16.20	25.00	34.50	47.80	65.20
17	. . .	. . .	. . .	. . . .	16.90	26.10	36.00	49.80	67.80
18	. . .	. . .	. . .	. . . .	17.60	27.20	37.50	51.80	70.40
19	. . .	. . .	. . .	. . . .	18.30	28.30	39.00	53.80	73.00
20	. . .	. . .	. . .	. . . .	19.00	29.40	40.50	55.80	75.60

Prices for Bolts 3/16 inch in diameter quoted when wanted.
The above Bolts are sometimes called "Cup," or "Button Head," also "Loom Bolts."
For Standard Sizes of Heads, see page 11.
We make all sizes of heads on these Bolts.
Copper or Tobin Bronze Bolts made to order.

Sizes of Bolt Heads.

Diameter of Bolt.	Tap Bolts, Square, Hexagon, and Coach Sc. Heads. Width and Thickness.	Tee Heads. Length, Width and Height.	Square Counters'k and Round Countersunk. Width and Height.	Round Head. Width and Thickness.
$\frac{1}{4}$	$\frac{7}{16} \times \frac{3}{16}$	$\frac{1}{2} \times \frac{1}{4} \times \frac{3}{16}$	$\frac{1}{2} \times \frac{3}{16}$	$\frac{11}{16} \times \frac{5}{32}$
$\frac{5}{16}$	$\frac{1}{2} \times \frac{1}{4}$	$\frac{5}{8} \times \frac{5}{16} \times \frac{1}{4}$	$\frac{19}{32} \times \frac{3}{16}$	$\frac{7}{8} \times \frac{3}{16}$
$\frac{3}{8}$	$\frac{5}{8} \times \frac{9}{32}$	$\frac{3}{4} \times \frac{3}{8} \times \frac{5}{16}$	$\frac{11}{16} \times \frac{7}{32}$	$1 \times \frac{1}{4}$
$\frac{7}{16}$	$\frac{23}{32} \times \frac{11}{32}$	$\frac{7}{8} \times \frac{7}{16} \times \frac{3}{8}$	$\frac{25}{32} \times \frac{1}{4}$	$1\frac{1}{16} \times \frac{9}{32}$
$\frac{1}{2}$	$\frac{13}{16} \times \frac{3}{8}$	$1 \times \frac{1}{2} \times \frac{7}{16}$	$\frac{7}{8} \times \frac{1}{4}$	$1\frac{3}{16} \times \frac{11}{32}$
$\frac{9}{16}$	$\frac{15}{16} \times \frac{7}{16}$	$1\frac{1}{8} \times \frac{9}{16} \times \frac{1}{2}$	$\frac{31}{32} \times \frac{9}{32}$	$1\frac{5}{16} \times \frac{3}{8}$
$\frac{5}{8}$	$1 \times \frac{1}{2}$	$1\frac{1}{4} \times \frac{5}{8} \times \frac{17}{32}$	$1\frac{1}{16} \times \frac{5}{16}$	$1\frac{3}{8} \times \frac{7}{16}$
$\frac{3}{4}$	$1\frac{3}{16} \times \frac{5}{8}$	$1\frac{1}{2} \times \frac{3}{4} \times \frac{5}{8}$	$1\frac{1}{4} \times \frac{11}{32}$	$1\frac{5}{8} \times \frac{1}{2}$
$\frac{7}{8}$	$1\frac{3}{8} \times \frac{3}{4}$	$1\frac{3}{4} \times \frac{7}{8} \times \frac{3}{4}$	$1\frac{7}{16} \times \frac{13}{32}$	$2 \times \frac{1}{2}$
1	$1\frac{9}{16} \times \frac{13}{16}$	$2 \times 1 \times \frac{7}{8}$	$1\frac{5}{8} \times \frac{7}{16}$	$2\frac{1}{4} \times \frac{5}{8}$
$1\frac{1}{8}$	$1\frac{13}{16} \times 1$	.. .. ..	.. ..	.. ..
$1\frac{1}{4}$	$1\frac{15}{16} \times 1\frac{1}{16}$	.. .. ..	.. ..	.. ..
$1\frac{3}{8}$	$2\frac{1}{8} \times 1\frac{3}{16}$	.. .. ..	.. ..	.. ..
$1\frac{1}{2}$	$2\frac{1}{4} \times 1\frac{1}{4}$	.. .. ..	.. ..	.. ..

The heads of Coach Screws and Tap Bolts will be made of same dimensions as given above for Square Head Bolts.

Unless otherwise ordered, we shall make all Countersunk Head Bolts at an angle of 35°.

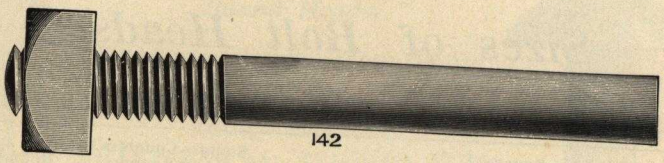
Bolts with Hexagon Heads or Hexagon Nuts, 10 per cent. extra.

With Hexagon Heads and Hexagon Nuts, 20 per cent. extra.

All Bolts are cut with United States Standard Threads, unless otherwise ordered.

We have excellent facilities and large experience in making peculiar shaped heads.

Bolt Ends.



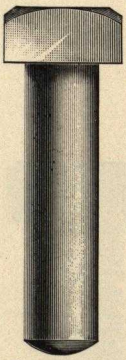
FINISHED POINTS, AND FITTED WITH CHAMFERED NUTS.

Size.	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
Length.	6	7	7	8	9	10	11	12
Price per Pound.	.28	.24	.22	.18	.16	.14	.14	.14
Size.	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2
Length.	13	14	15	16	17	18	19	20
Price per Pound.	.14	.16	.16	.16	.18	.18	.18	.18

If ordered in lengths shorter than those given in the list, an extra price will be charged. Hexagon Nuts, 10 per cent. extra. Upset or Enlarged Ends at special rates. Bolt Ends cut with left hand threads when ordered.

Standard Sizes of Upset Ends on Round Iron.

Diameter of Bar.	Diameter of Upset.	Length of Upset.	Threads pr. Inch.	Diameter of Bar.	Diameter of Upset.	Length of Upset.	Threads pr. Inch.
$\frac{3}{4}$	1	$2\frac{3}{4}$	8	$1\frac{3}{4}$	$2\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{1}{2}$
$\frac{7}{8}$	$1\frac{1}{8}$	3	7	$1\frac{7}{8}$	$2\frac{1}{4}$	$5\frac{3}{4}$	$4\frac{1}{2}$
1	$1\frac{1}{4}$	$3\frac{1}{4}$	7	2	$2\frac{3}{8}$	6	4
$1\frac{1}{8}$	$1\frac{3}{8}$	$3\frac{1}{2}$	6	$2\frac{1}{8}$	$2\frac{1}{2}$	$6\frac{1}{2}$	4
$1\frac{1}{4}$	$1\frac{1}{2}$	4	6	$2\frac{1}{4}$	$2\frac{5}{8}$	$6\frac{3}{4}$	4
$1\frac{3}{8}$	$1\frac{3}{4}$	$4\frac{1}{2}$	5	$2\frac{3}{8}$	$2\frac{3}{4}$	7	4
$1\frac{1}{2}$	$1\frac{7}{8}$	5	5	$2\frac{1}{2}$	$2\frac{7}{8}$	$7\frac{1}{2}$	$3\frac{1}{2}$
$1\frac{5}{8}$	2	$5\frac{1}{4}$	$4\frac{1}{2}$	$2\frac{5}{8}$	3	8	$3\frac{1}{2}$



LIST OF APRIL 25, 1892.

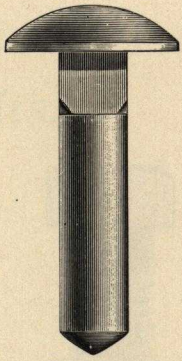
Blank Bolts.

Round, Square, or Hexagon Heads.

ROUND OR SQUARE UNDER HEAD,

WITH FINISHED POINTS.

PRICE PER HUNDRED.



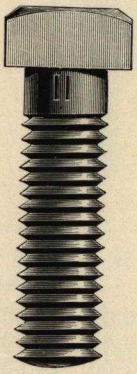
Length under Head. \ Diam.	¼	5/16	⅜	7/16	½	9/16 & ⅝	¾	⅞	1
1½	$2.25	$2.55	$2.90	$3.70	$4.80	$7.20	$10.15	$15.00	$22.00
2	2.35	2.70	3.10	4.00	5.15	7.75	10.90	16.00	23.30
2½	2.45	2.85	3.30	4.30	5.50	8.30	11.65	17.00	24.60
3	2.55	3.00	3.50	4.60	5.85	8.85	12.40	18.00	25.90
3½	2.65	3.15	3.70	4.90	6.20	9.40	13.15	19.00	27.20
4	2.75	3.30	3.90	5.20	6.55	9.95	13.90	20.00	28.50
4½	2.85	3.45	4.10	5.50	6.90	10.50	14.65	21.00	29.80
5	2.95	3.60	4.30	5.80	7.25	11.05	15.40	22.00	31.10
5½	3.05	3.75	4.50	6.10	7.60	11.60	16.15	23.00	32.40
6	3.15	3.90	4.70	6.40	7.95	12.15	16.90	24.00	33.70
6½	3.25	4.05	4.90	6.70	8.30	12.70	17.65	25.00	35.00
7	3.35	4.20	5.10	7.00	8.65	13.25	18.40	26.00	36.30
7½	3.45	4.35	5.30	7.30	9.00	13.80	19.15	27.00	37.60
8	3.55	4.50	5.50	7.60	9.35	14.35	19.90	28.00	38.90
9	3.75	4.80	5.90	8.20	10.05	15.45	21.40	30.00	41.50
10	3.95	5.10	6.30	8.80	10.75	16.55	22.90	32.00	44.10
11	4.15	5.40	6.70	9.40	11.45	17.65	24.40	34.00	46.70
12	4.35	5.70	7.10	10.00	12.15	18.75	25.90	36.00	49.30
13	4.55	6.00	7.50	10.60	12.85	19.85	27.40	38.00	51.90
14	4.75	6.30	7.90	11.20	13.55	20.95	28.90	40.00	54.50
15	4.95	6.60	8.30	11.80	14.25	22.05	30.40	42.00	57.10
16	5.15	6.90	8.70	12.40	14.95	23.15	31.90	44.00	59.70
17	5.35	7.20	9.10	13.00	15.65	24.25	33.40	46.00	62.30
18	5.55	7.50	9.50	13.60	16.35	25.35	34.90	48.00	64.90
19	5.75	7.80	9.90	14.20	17.05	26.45	36.40	50.00	67.50
20	5.95	8.10	10.30	14.80	17.75	27.55	37.90	52.00	70.10

Hexagon Heads, 10 per cent. extra.

All kinds of Special Bolt Blanks made to order at short notice. Prices furnished on application.

For Sizes of Heads, see page 11.

Tap Bolts.



CUT UNITED STATES STANDARD THREADS.

Square Heads.

PRICE PER HUNDRED.

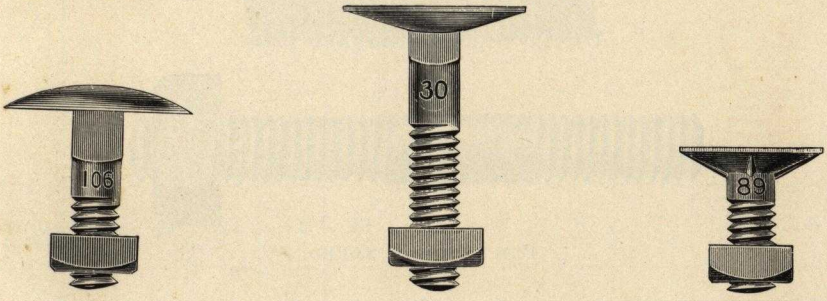
Length under Head. Diam.	¼	5/16	⅜	7/16	½	9/16 & ⅝	¾	⅞	1
1½	$2.50	$2.80	$3.30	$3.90	$4.90	$7.40	$10.40	$15.00	$23.20
1¾	2.60	2.90	3.40	4.00	5.10	7.70	10.80	15.50	23.90
2	2.70	3.00	3.50	4.10	5.30	8.00	11.20	16.00	24.60
2¼	2.80	3.10	3.60	4.20	5.50	8.30	11.60	16.50	25.30
2½	2.90	3.20	3.70	4.30	5.70	8.60	12.00	17.00	26.00
2¾	3.00	3.30	3.80	4.40	5.90	8.90	12.40	17.50	26.70
3	3.10	3.40	3.90	4.50	6.10	9.20	12.80	18.00	27.40
3½	. . .	. . .	4.10	4.70	6.50	9.80	13.60	19.00	28.80
4	. . .	. . .	. . .	4.90	6.90	10.40	14.40	20.00	30.20

With Hexagon Heads, 10 per cent. extra.

Milled under Head and on Body, at special discount.

For Sizes of Heads, see page 11.

Belt or Elevator Bolts.



PRICE PER HUNDRED. (IN 100 LOTS.)

Diameter.	$\frac{3}{16}$ inch.	¼ inch.	$\frac{5}{16}$ inch.	⅜ inch.	$\frac{7}{16}$ inch.
Size of Head.	$\frac{15}{16}$ x $\frac{3}{32}$	$1\frac{1}{16}$ x ⅛	$1\frac{3}{16}$ x $\frac{5}{32}$	1¼ x $\frac{3}{16}$	1⅜ x $\frac{3}{16}$
¾ inch long.	$3.00	$3.00	$3.60	. . .	. . .
1 inch long.	3.10	3.10	3.70	$4.40	$5.80
1¼ inch long.	3.20	3.20	3.80	4.55	5.80
1½ inch long.	3.30	3.30	3.90	4.70	6.00
1¾ inch long.	. . .	. . .	4.00	4.85	6.20
2 inch long.	. . .	. . .	. . .	5.00	6.40

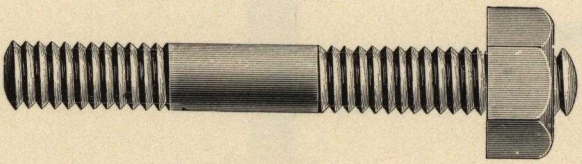
Button Head Bolts will be sent, unless otherwise ordered.

We make a great variety of heads both smaller and larger than above sizes.

Rough Iron Stud Bolts.

With Chamfered and Trimmed Hexagon Nuts.

UNITED STATES STANDARD SIZES.



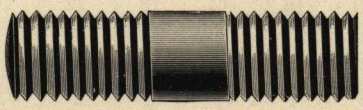
PRICE PER HUNDRED.

Diam.	3/8	7/16	1/2	9/16 & 5/8	3/4	7/8	1	1 1/8	1 1/4
No. Threads.	16	14	13	12 or 11	10	9	8	7	7
Length over all.									
1 1/2	$4.00	$5.10	$5.50	. . .	. . . .	. . . .	. . . .	. . . .	. . . .
1 3/4	4.10	5.25	5.65	. . .	. . . .	. . . .	. . . .	. . . .	. . . .
2	4.20	5.40	5.80	$8.50	$12.40	. . . .	. . . .	. . . .	. . . .
2 1/4	4.30	5.55	5.95	8.75	12.70	. . . .	. . . .	. . . .	. . . .
2 1/2	4.40	5.70	6.10	9.00	13.00	$18.00	. . . .	. . . .	. . . .
2 3/4	4.50	5.85	6.25	9.25	13.30	18.50	. . . .	. . . .	. . . .
3	4.60	6.00	6.40	9.50	13.60	19.00	$27.80	. . . .	. . . .
3 1/4	4.70	6.15	6.55	9.75	13.90	19.50	28.40	. . . .	. . . .
3 1/2	4.80	6.30	6.70	10.00	14.20	20.00	29.00	$41.50	. . . .
3 3/4	4.90	6.45	6.85	10.25	14.50	20.50	29.60	42.25	. . . .
4	5.00	6.60	7.00	10.50	14.80	21.00	30.20	43.00	$60.00
4 1/2	5.25	6.90	7.30	11.00	15.40	22.00	31.40	44.50	62.50
5	. . .	. . .	7.60	11.50	16.00	23.00	32.60	46.00	65.00
5 1/2	. . .	. . .	8.00	12.00	16.60	24.00	33.80	47.50	67.50
6	. . .	. . .	8.45	12.50	17.20	25.00	35.00	49.00	70.00
7	. . .	. . .	. . .	13.60	18.60	27.00	37.50	52.00	75.50
8	. . .	. . .	. . .	14.80	20.10	29.10	40.10	56.00	81.00
9	. . .	. . .	. . .	. . . .	21.60	31.20	42.80	60.50	86.00
10	. . .	. . .	. . .	. . . .	23.20	33.40	45.50	65.00	92.00

Studs without nuts will be charged at a reduction of 15 per cent. from list prices.

In ordering Studs, please give length of thread wanted on each end, and length of body.

Milled Iron Studs.



PRICE PER HUNDRED.

No. Th'ds to In.	16	14	13	12	11	10	9	8	7	7	6
Diam.	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8
Length over all. 1 1/4	$3.35	$4.05	$4.40	$5.10	. . .	. . .	. . .	. . .	. . .	. . .	. . .
1 1/2	3.50	4.20	4.60	5.30	$6.10	. . .	. . .	. . .	. . .	. . .	. . .
1 3/4	3.65	4.35	4.80	5.50	6.30	. . .	. . .	. . .	. . .	. . .	. . .
2	3.80	4.50	5.00	5.70	6.50	$8.80	. . .	. . .	. . .	. . .	. . .
2 1/4	3.95	4.65	5.20	5.90	6.70	9.10	. . .	. . .	. . .	. . .	. . .
2 1/2	4.10	4.80	5.40	6.10	6.90	9.40	$12.00	. . .	. . .	. . .	. . .
2 3/4	4.25	4.95	5.60	6.30	7.10	9.70	12.50	. . .	. . .	. . .	. . .
3	4.40	5.10	5.80	6.50	7.30	10.00	13.00	$17.00	$21.00	. . .	. . .
3 1/4	. . .	5.25	6.00	6.70	7.50	10.30	13.50	17.75	22.00	. . .	. . .
3 1/2	. . .	5.40	6.20	6.90	7.70	10.60	14.00	18.50	23.00	$27.00	. . .
3 3/4	. . .	. . .	6.40	7.10	7.90	10.90	14.50	19.25	24.00	28.00	. . .
4	. . .	. . .	6.60	7.30	8.10	11.20	15.00	20.00	25.00	29.00	$33.00
4 1/2	. . .	. . .	. . .	7.50	8.40	11.65	15.75	21.00	26.50	30.50	34.50
5	. . .	. . .	. . .	7.70	8.70	12.10	16.50	22.00	28.00	32.00	36.00
5 1/2	. . .	. . .	. . .	. . .	9.00	12.55	17.25	23.00	29.50	33.50	37.50
6	. . .	. . .	. . .	. . .	9.30	13.00	18.00	24.00	31.00	35.00	39.00
Add for each 1/4 inch.	.15	.20	.20	.20	.25	.30	.40	.60	.75	1.00	1.00

For Studs with Semi-Finished Nuts add as per page 47.

For Studs with Case-Hardened Finished Nuts add as per page 47.

List of Threads.

UNITED STATES GOVERNMENT STANDARD.

Bolt,	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$
No. Threads,	20	18	16	14	13	12	11	11	10	10

Bolt,	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2
No. Threads,	9	8	7	7	6	6	$5\frac{1}{2}$	5	5	$4\frac{1}{2}$

We cut all our Bolts to above standard, unless specially ordered different.
We also have United States Standard Left Hand Threads from $\frac{1}{4}$ to 2 inclusive.

Additional Threads, Right Hand.

Bolt,	$\frac{3}{32}$	$\frac{7}{64}$	$\frac{1}{8}$	$\frac{5}{32}$
No. Threads,	36	48	32	23, 24, 26, 27, 28, 30, 32, 36, 38, 40

Bolt,	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$
No. Threads,	20, 24, 26, 28, 30, 32	20, 22, 26, 28, 30, 40	16, 17, 18, 20, 22, 24, 26

Bolt,	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$
No. Threads,	18, 20, 24, 28	14, 15, 16, 17, 18, 20, 22, 24, 26, 30	16, 18

Bolt,	$\frac{3}{8}$	$\frac{7}{16}$
No. Threads,	12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 27	10, 11, 12, 13, $13\frac{1}{3}$, $13\frac{1}{2}$, 14, 16, 20

Bolt,	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{19}{32}$
No. Threads,	10, 11, 12, $12\frac{1}{2}$, 14, 15, 16, 18,	10, 11, 12, 13, $13\frac{1}{2}$, 14, 16, 18	11, 12, 16

Bolt,	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$
No. Threads,	10, 11, 12, 14, 16, 18	10, 11, 12	8, 9, 10, 11, 12, 14	9, 10, 11, 14

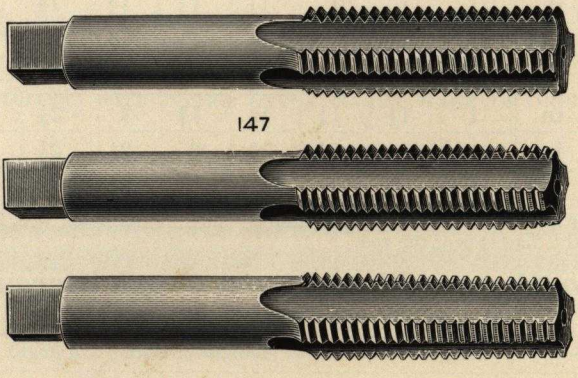
Bolt,	$\frac{7}{8}$	$\frac{15}{16}$	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{1}{4}$
No. Threads,	8, 9, 10, 12, 14	8	8, 9, 10, 11, 12, 14	8	7, 8, 12, 16	7	7, 10, 12

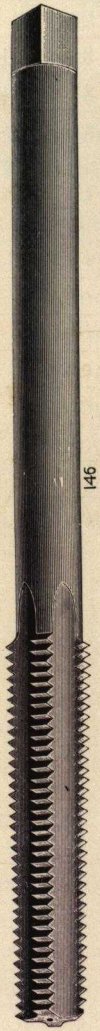
Bolt,	$1\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{7}{16}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2	$2\frac{1}{8}$
No. Threads,	7	6, 7	6	6, 7	$5\frac{1}{2}$	5, 12	5	$4\frac{1}{2}$	$4\frac{1}{2}$

Additional Threads, Left Hand.

Bolt,	$\frac{7}{64}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$
No. Threads,	32	16	14, 16	10, 12, 14, 16	12, 14, 16	10	10	9	8	7	6	6	5

United States Standard Taps.





Diameter.	No. Threads. to Inch.	Hand Taps.		Machine Nut Taps. Price Each.
		Price Each.	Price per Set.	
$\frac{1}{4}$	20	$0.45	$1.35	$0.60
$\frac{5}{16}$	18	.50	1.50	0.70
$\frac{3}{8}$	16	.55	1.65	0.80
$\frac{7}{16}$	14	.60	1.80	0.90
$\frac{1}{2}$	13	.70	2.10	1.00
$\frac{9}{16}$	12	.80	2.40	1.15
$\frac{5}{8}$	11	.90	2.70	1.30
$\frac{11}{16}$	11	1.05	3.15	1.45
$\frac{3}{4}$	10	1.20	3.60	1.60
$\frac{13}{16}$	10	1.40	4.20	1.80
$\frac{7}{8}$	9	1.60	4.80	2.10
$\frac{15}{16}$	9	1.80	5.40	2.40
1	8	2.00	6.00	2.80
$1\frac{1}{8}$	7	2.25	6.75	3.20
$1\frac{1}{4}$	7	2.60	7.80	3.70
$1\frac{3}{8}$	6	3.00	9.00	4.20
$1\frac{1}{2}$	6	3.50	10.50	4.70
$1\frac{5}{8}$	$5\frac{1}{2}$	4.20	12.60	5.30
$1\frac{3}{4}$	5	5.00	15.00	6.00
$1\frac{7}{8}$	5	5.80	17.40	6.80
2	$4\frac{1}{2}$	6.70	20.10	7.70

Lengths of Threads Cut on Bolts.

Length of Bolts.	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
1 to $1\frac{1}{2}$ in.	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	. . .	. . .	. . .	. . .	. . .
$1\frac{5}{8}$ to 2 in.	$\frac{7}{8}$	1	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	. . .	. . .	. . .
$2\frac{1}{8}$ to $2\frac{1}{2}$ in.	1	1	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$	. . .	. . .
$2\frac{5}{8}$ to 3 in.	1	1	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	. . .
$3\frac{1}{8}$ to 4 in.	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	$2\frac{1}{2}$
$4\frac{1}{8}$ to 8 in.	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{3}{4}$	3
$8\frac{1}{8}$ to 12 in.	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	3	$3\frac{1}{4}$
$12\frac{1}{8}$ to 20 in.	1	$1\frac{1}{2}$	2	2	2	$2\frac{1}{2}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$

Bolts longer than 20 inches and larger than $1\frac{1}{4}$ inch in diameter will be threaded about 3 times the diameter of the rod.

Lengths of Threads on Coach Screws
Of all Diameters.

Length of Bolt.	Length of Thread.	Length of Bolt.	Length of Thread.
$1\frac{1}{2}$ inches.	To Head.	5 inches.	4 inches.
2 inches.	$1\frac{1}{2}$ inches.	$5\frac{1}{2}$ inches.	4 inches.
$2\frac{1}{2}$ inches.	2 inches.	6 inches.	$4\frac{1}{2}$ inches.
3 inches.	$2\frac{1}{4}$ inches.	7 inches.	5 inches.
$3\frac{1}{2}$ inches.	$2\frac{1}{2}$ inches.	8 inches.	6 inches.
4 inches.	3 inches.	9 inches.	6 inches.
$4\frac{1}{2}$ inches.	$3\frac{1}{2}$ inches.	10 to 12 inches.	7 inches.

Coach Screws.

NUMBER OF THREADS PER INCH.

Diam. of Screw.	No. of Threads.	Diam. of Screw.	No. of Threads.	Diam. of Screw.	No. of Threads.
$\frac{1}{4}$ inch.	10	$\frac{7}{16}$ inch.	7	$\frac{3}{4}$ inch.	$4\frac{1}{2}$
$\frac{5}{16}$ inch.	9	$\frac{1}{2}$ inch.	5	$\frac{7}{8}$ inch.	4
$\frac{3}{8}$ inch.	7	$\frac{9}{16}$ — $\frac{5}{8}$ in.	5	1 inch.	4

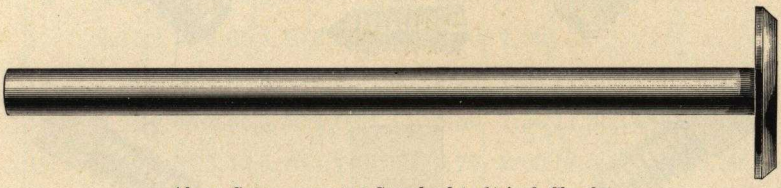
Breaking Strain of Bolts.

$\frac{3}{8}$ inch.	$\frac{7}{16}$ inch.	$\frac{1}{2}$ inch.	$\frac{9}{16}$ inch.	$\frac{5}{8}$ inch.	$\frac{11}{16}$ inch.	$\frac{3}{4}$ inch.	$\frac{7}{8}$ inch.	1 inch.
4,575 lbs.	4,950 lbs.	7,700 lbs.	9,000 lbs.	11,225 lbs.	15,000 lbs.	18,200 lbs.	23,500 lbs.	30,000 lbs.

$1\frac{1}{8}$ inch.	$1\frac{1}{4}$ inch.	$1\frac{1}{2}$ inch.	$1\frac{3}{4}$ inch.	2 inch.	$2\frac{1}{4}$ inch.	$2\frac{1}{2}$ inch.	$2\frac{3}{4}$ inch.	3 inch.
35,500 lbs.	41,000 lbs.	63,000 lbs.	88,000 lbs.	120,000 lbs.	145,000 lbs.	180,000 lbs.	220,000 lbs.	275,000 lbs.

Wrought Iron Chaplets or Anchors.

CHAPLETS WITH EXTRA LARGE HEADS MADE TO ORDER.

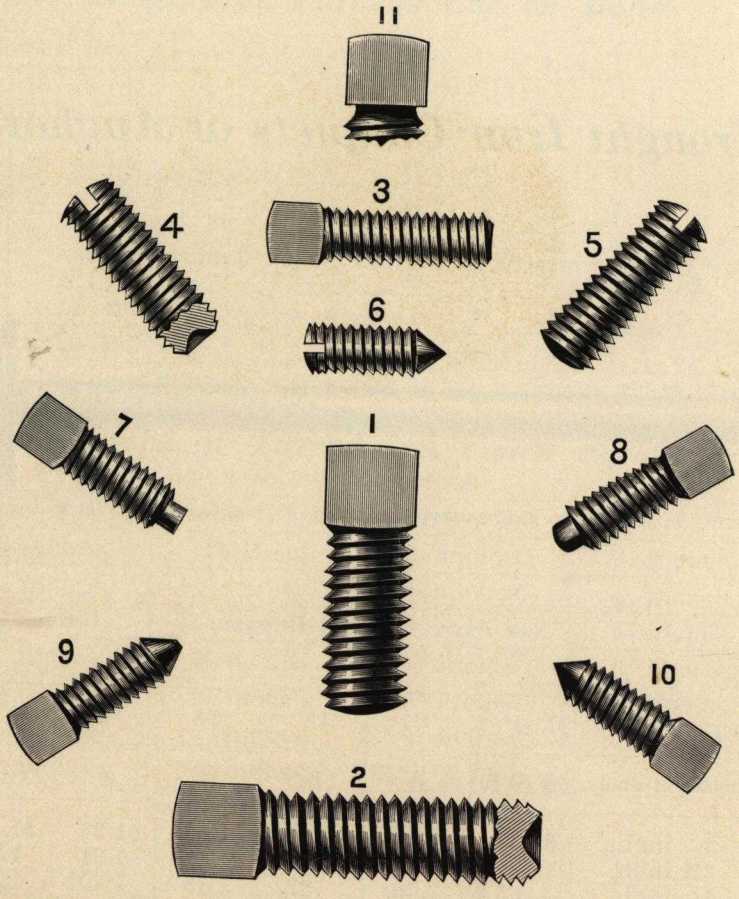


Above Cut represents a Standard 4 x ¼ inch Chaplet.

NET PRICE LIST PER HUNDRED.

Diameter of Head.	½, 11/16, 13/16	1⅛	1¼	1⅜	1½	1⅝, 1¾
Diameter of Stem.	⅛, 3/16, ¼	5/16	⅜	7/16	½	9/16, ⅝
Length. 3 inch,	$0.62	$0.71	$0.81	$1.03	$1.23	$1.76
3½ inch,	.64	.73	.84	1.07	1.31	1.86
4 inch,	.65	.76	.87	1.13	1.40	1.97
4½ inch,	.67	.79	.90	1.19	1.48	2.07
5 inch,	.68	.82	.94	1.24	1.57	2.18
5½ inch,	.70	.84	.98	1.29	1.65	2.27
6 inch,	.72	.86	1.01	1.34	1.79	2.45
6½ inch,	.73	.89	1.05	1.46	1.93	2.63
7 inch,	.84	1.00	1.16	1.59	2.06	2.81
7½ inch,	.86	1.03	1.20	1.79	2.19	2.99
8 inch,	.87	1.05	1.24	1.82	2.34	3.17
9 inch,	.90	1.10	1.30	1.94	2.47	3.35
10 inch,	.94	1.16	1.37	2.06	2.61	3.53
11 inch,	.98	1.21	1.43	2.19	2.75	3.71
12 inch,	1.01	1.25	1.50	2.30	2.88	3.90

Chaplets or Anchors either Tinned or Silver Plated as desired.



No. 1. Regular Round Point, Set.
No. 2. Cup Point, Set.
No. 3. Flat Point, Set.
No. 4. Cup Point, Headless.
No. 5. Round Point, Headless.
No. 6. Cone Point, Headless.
No. 7. Flat, Pivot Point.
No. 8. Round, Pivot Point.
No. 9 Hanger, Set Point.
No. 10. Cone Point.
No. 11. Necked Style.

In filling orders, style No. 1 is always forwarded, unless other kinds are specified.

Oval and Cup Point Set Screws are regular, all other kinds are special, and when ordered in lots of less than 500 of one diameter and length, will be charged at 10 per cent. less discount.

Set Screw prices shall apply to Headless Set Screws, threaded over all or nearly so; slotted, and burrs removed from head and slot.

Set Screws, with ground or polished heads, 10 per cent. less discount. Set Screws, with heads polished after hardening, 20 per cent. less discount.

No Screw which has a head more than $\frac{1}{16}$ of an inch larger than the body shall be classed as a Set Screw.

A Rough Screw, requiring over-size stock, shall take the same price as a Soft Set Screw, with head of same size, limited by the article preceding.

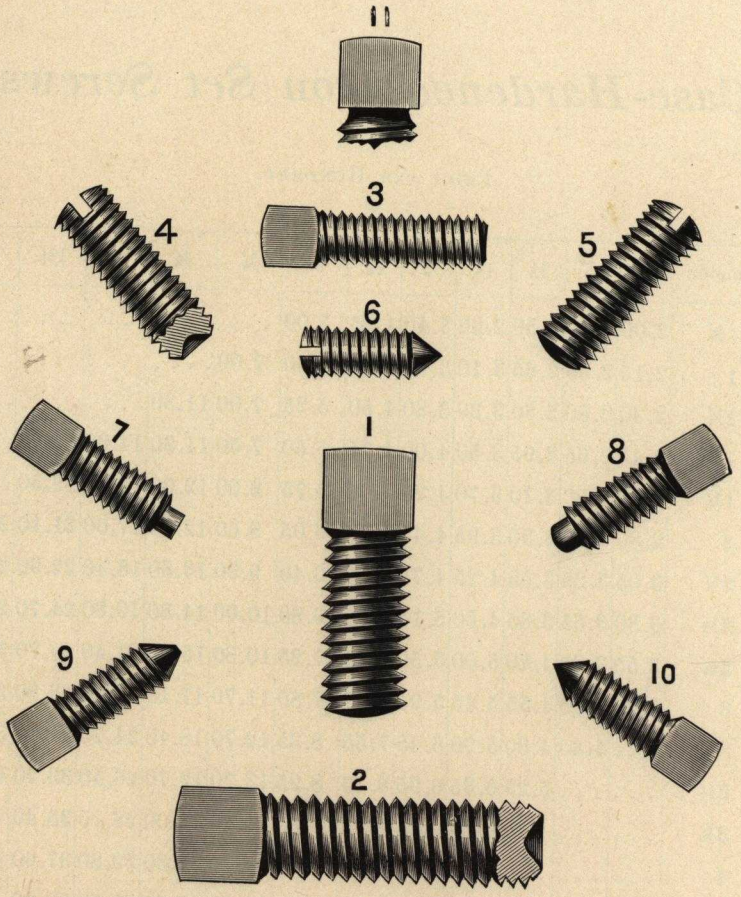
Case-Hardened Iron Set Screws.

PRICE PER HUNDRED.

Length under Head. / Diameter.	¼	5/16	⅜	7/16	½	9/16	⅝	¾	⅞	1	1⅛	1¼
¾	2.00	2.20	2.50	2.90	3.40	4.25	5.00	. . .	. . . .	. . . .	. . . .	. . . .
1	2.15	2.35	2.65	3.10	3.60	4.25	5.00	7.00	. . . .	. . . .	. . . .	. . . .
1¼	2.30	2.50	2.80	3.30	3.80	4.50	5.25	7.00	11.30	. . . .	. . . .	. . . .
1½	2.45	2.65	2.95	3.50	4.00	4.75	5.50	7.50	11.30	14.90	. . . .	. . . .
1¾	2.60	2.80	3.10	3.70	4.20	5.00	5.75	8.00	12.00	15.90	19.50	. . . .
2	2.80	3.00	3.30	3.95	4.45	5.30	6.05	8.60	12.90	17.00	21.10	25.30
2¼	3.05	3.25	3.55	4.25	4.75	5.65	6.40	9.30	13.80	18.40	22.90	27.40
2½	3.30	3.55	3.85	4.60	5.10	6.05	6.80	10.00	14.80	19.80	24.70	29.60
2¾	3.55	3.85	4.20	5.00	5.50	6.50	7.25	10.80	15.90	21.40	26.70	32.00
3	3.80	4.15	4.55	5.45	5.95	7.00	7.80	11.70	17.10	23.00	28.80	34.60
3¼	. . .	4.45	4.90	5.90	6.45	7.55	8.35	12.70	18.40	24.70	31.00	37.40
3½	. . .	. . .	5.25	6.35	6.95	8.10	8.95	13.70	19.70	26.40	33.20	40.20
3¾	. . .	. . .	. . .	6.80	7.45	8.65	9.55	14.70	21.00	28.10	35.40	43.00
4	. . .	. . .	. . .	. . .	7.95	9.20	10.15	15.70	22.30	29.80	37.60	45.80
4¼	. . .	. . .	. . .	. . .	. . .	9.75	10.75	16.70	23.60	31.50	39.80	48.60
4½	. . .	. . .	. . .	. . .	. . .	. . .	11.35	17.70	24.90	33.20	42.00	51.40
4¾	. . .	. . .	. . .	. . .	. . .	. . .	. . .	18.70	26.20	34.90	44.20	54.20
5	. . .	. . .	. . .	. . .	. .	. .	. . .	. . .	27.50	36.60	46.40	57.00
Threads to Inch.	20	18	16	14	13	12	11	10	9	8	7	7
Add for each ¼ Inch.	.25	.30	.35	.45	.50	.55	.60	1.00	1.30	1.70	2.20	2.80

In ordering Set Screws, please state whether you want Cup or Oval Points.

In ordering Screws ½ inch diameter, please state whether wanted with 12 or 13 threads. The latter always sent unless otherwise stated.



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Set Screws, with ground or polished heads, 10 per cent. less discount. Set Screws, with heads polished after hardening, 20 per cent. less discount.

No Screw, which has a head more than $\frac{1}{16}$ of an inch larger than the body, shall be classed as a Set Screw.

A Rough Screw, requiring over-size stock, shall take the same price as a Soft Set Screw with head of same size, limited by the article preceding.

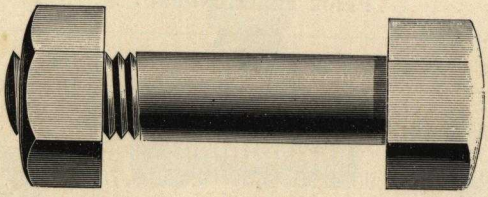
Steel Set Screws.

PRICE PER HUNDRED.

Diam. of Screw.	¼	5/16	⅜	7/16	½	9/16	⅝	¾	⅞	1	1⅛	1¼
Length under Head to Extreme Point.												
¾	2.50	2.75	3.10	3.60	4.25	5.30	6.25	. . .	. . .	. . .	. . .	. . .
1	2.65	2.90	3.30	3.90	4.50	5.30	6.25	8.75	. . .	. . .	. . .	. . .
1¼	2.85	3.10	3.50	4.15	4.75	5.60	6.55	8.75	14.10	. . .	. . .	. . .
1½	3.05	3.30	3.70	4.40	5.00	5.90	6.90	9.35	14.10	18.60	. . .	. . .
1¾	3.25	3.50	3.90	4.65	5.25	6.25	7.25	10.00	15.00	19.80	24.40	. . .
2	3.50	3.75	4.15	4.95	5.55	6.60	7.60	10.75	16.10	21.25	26.35	31.60
2¼	3.80	4.05	4.45	5.30	5.90	7.05	8.00	11.60	17.25	23.00	28.60	34.25
2½	4.10	4.45	4.80	5.75	6.35	7.55	8.50	12.50	18.50	24.70	30.85	37.00
2¾	4.45	4.80	5.25	6.20	6.85	8.10	9.05	13.50	19.85	26.65	33.40	40.00
3	4.75	5.20	5.70	6.75	7.45	8.75	9.70	14.60	21.35	28.75	36.00	43.25
3¼	. . .	5.55	6.10	7.30	8.05	9.45	10.45	15.85	23.00	30.85	38.75	46.75
3½	. . .	. . .	6.55	7.90	8.70	10.15	11.20	17.10	24.60	33.25	41.50	50.25
3¾	. . .	. . .	. . .	8.50	9.35	10.85	11.95	18.35	26.25	35.15	44.30	53.75
4	. . .	. . .	. . .	. . .	9.95	11.50	12.70	19.60	27.85	37.25	47.00	57.25
4¼	. . .	. . .	. . .	. . .	. . .	12.20	13.45	20.85	29.50	39.40	49.75	60.75
4½	. . .	. . .	. . .	. . .	. . .	. . .	14.20	22.10	31.00	41.50	52.50	64.30
4¾	. . .	. . .	. . .	. . .	. . .	. . .	. . .	23.40	32.75	43.60	55.25	67.95
5	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	34.40	45.75	58.00	71.25
Threads to Inch.	20	18	16	14	13	12	11	10	9	8	7	7
Add for each ¼ in.	.35	.40	.50	.60	.70	.80	.90	1.30	1.75	2.30	3.00	3.75

In ordering Screws ½ inch in diameter please state whether wanted with 12 or 13 thread. The latter always sent unless otherwise stated.

Coupling Bolts.

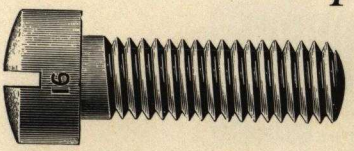


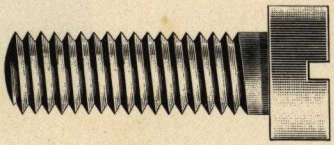
PRICE PER HUNDRED.

Diameter of Head.	$\frac{7}{8}$	$1\frac{1}{16}$	$1\frac{1}{4}$	$1\frac{7}{16}$	$1\frac{5}{8}$	$1\frac{13}{16}$	2
Length of Head.	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
Diameter of Bolt.	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
Length under Head to Extreme Point.							
2	$20.00	$25.00	....	....	....	....	....
2¼	20.50	25.75	$32.00	....	....	....	....
2½	21.00	26.50	32.00	$38.75	....	....	....
2¾	21.50	27.25	33.00	39.75	$56.00	....	....
3	22.00	28.00	34.00	40.75	56.00	$70.00	....
3¼	22.50	28.75	35.00	41.75	57.00	71.50	$100.00
3½	23.00	29.50	36.00	42.75	58.00	73.00	100.00
3¾	23.50	30.25	37.00	43.75	59.00	74.50	102.50
4	24.00	31.00	38.00	44.75	60.00	76.00	105.00
4¼	24.50	31.75	39.00	45.75	61.00	77.50	107.50
4½	25.00	32.50	40.00	46.75	62.00	79.00	110.00
4¾	25.50	33.25	41.00	47.75	63.00	80.50	112.50
5	....	34.00	42.00	48.75	64.00	82.00	115.00
5¼	....	....	43.00	49.75	65.00	83.50	117.50
5½	....	....	....	50.75	66.00	85.00	120.00
5¾	....	....	....	....	67.00	86.50	122.50
6	....	....	....	....	....	88.00	125.00
Thickness of Nut.	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
Short Diameter of Nut.	$\frac{7}{8}$	$1\frac{1}{16}$	$1\frac{1}{4}$	$1\frac{7}{16}$	$1\frac{5}{8}$	$1\frac{13}{16}$	2

Regular Coupling Bolt, milled body, heads faced on top, sides rough. Nut tapped and faced on the bottom. Extra finish to order.

Oval and Flat Fillister Head Cap Screws.





PRICE PER HUNDRED.

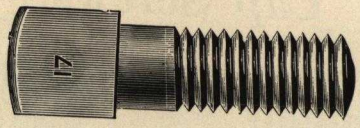
Diameter Head.	3/16	1/4	3/8	7/16	9/16	5/8	3/4	13/16	7/8	1	1 1/8	1 1/4
Length Head.	1/8	5/32	3/16	1/4	5/16	7/16	1/2	9/16	5/8	3/4	7/8	1
Threads to Inch.	40	30	20	18	16	14	13	12	11	10	9	8
Diameter Screw.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
Length under Head.												
3/4	2.00	2.25	2.50	3.00	3.50	4.00	5.00	....	....	....	....	....
1	2.25	2.50	2.75	3.25	3.75	4.25	5.30	6.60	....	....	....	....
1 1/4	2.50	2.75	3.00	3.50	4.00	4.50	5.60	6.90	9.00	....	....	....
1 1/2	2.75	3.00	3.25	3.75	4.25	4.75	5.90	7.20	9.50	12.00	....	....
1 3/4	3.00	3.25	3.50	4.00	4.50	5.00	6.20	7.50	10.00	12.50	15.25	....
2	3.25	3.50	3.75	4.35	5.00	5.50	6.75	8.00	10.75	13.00	16.00	19.20
2 1/4	3.50	3.75	4.00	4.75	5.50	6.00	7.25	8.50	11.50	13.75	16.75	20.20
2 1/2	3.75	4.00	4.25	5.15	6.00	6.50	7.75	9.00	12.00	14.50	17.50	21.25
2 3/4	...	4.25	4.50	5.55	6.50	7.00	8.25	9.50	12.75	15.25	18.30	22.40
3	...	...	4.75	5.95	7.00	7.50	8.75	10.00	13.50	16.00	19.10	23.60
3 1/4	...	...	...	6.35	7.50	8.00	9.25	10.50	14.25	16.75	20.00	24.85
3 1/2	...	...	...	...	8.00	8.50	9.75	11.00	15.00	17.50	21.00	26.10
3 3/4	...	...	...	...	...	9.00	10.25	11.50	15.75	18.25	22.00	27.35
4	...	...	...	...	...	...	10.75	12.00	16.50	19.00	23.00	28.60
4 1/4	...	...	...	...	...	...	...	12.50	17.25	19.75	24.00	29.85
4 1/2	...	...	...	...	...	...	...	...	18.00	20.50	25.00	31.10
4 3/4	...	...	...	...	...	...	...	...	...	21.25	26.00	32.35
5	...	...	...	...	...	...	...	...	...	...	27.00	33.60
Add for each 1/4 inch.	.25	.25	.25	.40	.50	.50	.50	.50	.75	.75	1.00	1.25

In ordering Screws 1/2 inch in diameter, please state whether wanted with 12 or 13 threads.

Threads cut two thirds length of Screw.

Cap Screws.

Square Heads.



PRICE PER HUNDRED.

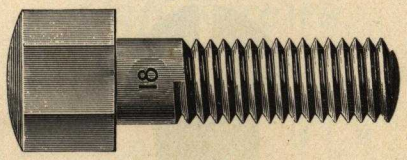
Diam. Head.	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8
Length Head.	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8
Thr'ds to inch.	20	18	16	14	13	12	11	10	9	8	7	7	6
Diam. Screw.	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8
Length under Head.													
3/4	2.40	2.75	3.20	3.80	4.40	5.75	. . .	. . .	. . .	. . .	. . .	. . .	. . .
1	2.60	2.95	3.40	4.00	4.70	5.75	7.70	. . .	. . .	. . .	. . .	. . .	. . .
1 1/4	2.75	3.10	3.65	4.20	4.95	6.05	7.70	10.50	. . .	. . .	. . .	. . .	. . .
1 1/2	2.90	3.30	3.85	4.45	5.25	6.35	8.25	10.50	14.00	. . .	. . .	. . .	. . .
1 3/4	3.05	3.50	4.10	4.70	5.55	6.65	8.80	11.10	14.80	18.00	. . .	. . .	. . .
2	3.25	3.70	4.35	4.95	5.90	7.05	9.40	11.80	15.70	19.00	22.50	. . .	. . .
2 1/4	3.50	4.00	4.65	5.25	6.30	7.55	10.10	12.60	16.70	20.20	24.00	30.00	. . .
2 1/2	3.75	4.35	5.00	5.60	6.75	8.15	10.90	13.50	17.80	21.50	25.80	32.00	39.00
2 3/4	4.00	4.70	5.45	6.00	7.25	8.85	11.80	14.60	19.10	23.10	27.90	34.20	41.50
3	4.25	5.05	5.90	6.55	7.80	9.65	12.80	15.90	20.60	25.00	30.50	37.00	45.00
3 1/4	. . .	5.40	6.35	7.10	8.45	10.55	14.00	17.40	22.40	27.30	33.50	40.50	49.00
3 1/2	. . .	. . .	6.80	7.65	9.10	11.45	15.20	18.90	24.20	29.60	36.50	44.00	53.00
3 3/4	. . .	. . .	. . .	8.20	9.75	12.35	16.40	20.40	26.00	31.90	39.50	47.50	57.00
4	. . .	. . .	. . .	. . .	10.40	13.25	17.60	21.90	27.80	34.20	42.50	51.00	61.00
4 1/4	. . .	. . .	. . .	. . .	. . .	14.15	18.80	23.40	29.60	36.50	45.50	54.50	65.00
4 1/2	. . .	. . .	. . .	. . .	. . .	. . .	20.00	24.90	31.40	38.80	48.50	58.00	69.00
4 3/4	. . .	. . .	. . .	. . .	. . .	. . .	. . .	26.40	33.20	41.10	51.50	61.50	73.00
5	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	35.00	43.40	54.50	65.00	77.00
Add for each 1/4 inch.	.25	.35	.45	.55	.65	.90	1.20	1.50	1.80	2.30	3.00	3.50	4.00

On all Screws of 1 inch and less in diameter, and less than 4 inches long, threads are cut three-fourths of length; beyond 4 inches, threads are cut half of the length.

In ordering Screws 1/2 inch in diameter, please state whether wanted with 12 or 13 threads.

Cap Screws.

Hexagon Heads.

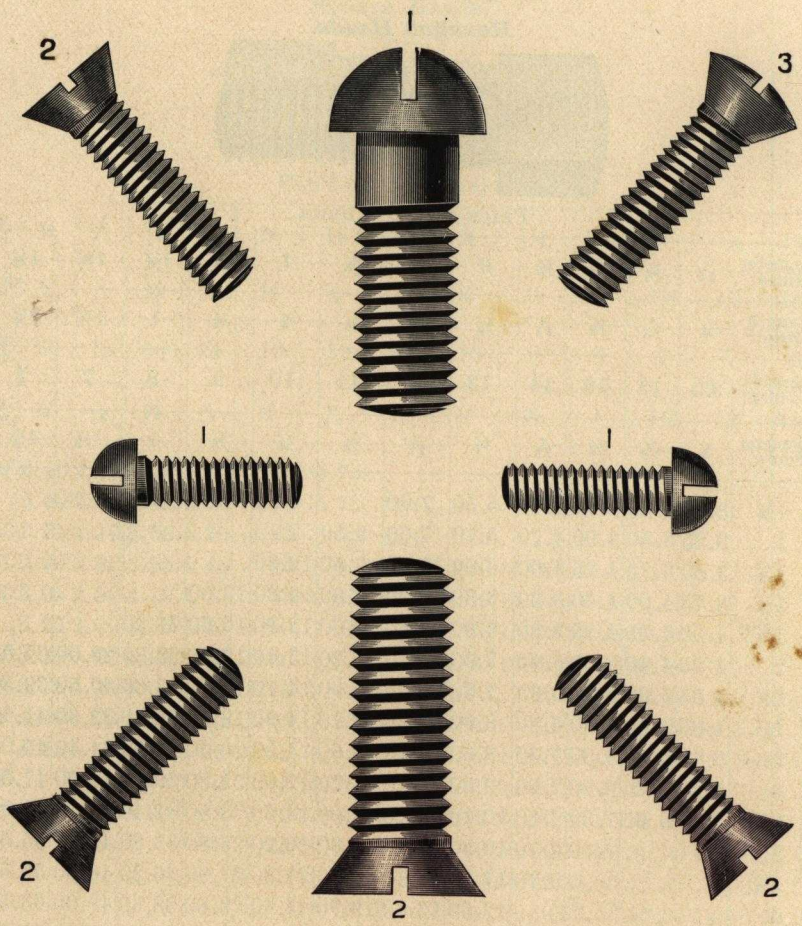


PRICE PER HUNDRED.

Diameter Head.	7/16	1/2	9/16	5/8	3/4	13/16	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
Length Head.	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4
Threads to inch.	20	18	16	14	13	12	11	10	9	8	7	7
Diameter Screw.	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8	1 1/4
Length under Head.												
3/4	3.00	3.25	3.75	4.40	5.50	7.00	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
1	3.25	3.50	4.00	4.70	5.70	7.00	9.50	. . . .	. . . .	. . . .	. . . .	. . . .
1 1/4	3.50	3.75	4.25	5.00	6.00	7.50	9.50	12.20	. . . .	. . . .	. . . .	. . . .
1 1/2	3.75	4.00	4.50	5.30	6.30	8.00	10.00	12.20	16.00	. . . .	. . . .	. . . .
1 3/4	4.00	4.25	4.75	5.60	6.60	8.50	10.60	12.80	16.60	21.20	. . . .	. . . .
2	4.25	4.60	5.05	5.95	7.00	9.10	11.20	13.40	17.20	22.30	29.00	37.50
2 1/4	4.55	5.00	5.40	6.35	7.50	9.70	11.90	14.10	17.90	23.60	30.50	39.30
2 1/2	4.85	5.40	5.80	6.80	8.00	10.40	12.70	14.90	18.80	25.10	32.30	41.40
2 3/4	5.15	5.80	6.30	7.30	8.60	11.20	13.60	15.90	20.00	26.90	34.40	44.00
3	5.45	6.20	6.80	7.90	9.30	12.10	14.70	17.00	21.80	29.00	37.00	47.50
3 1/4	. . .	6.60	7.30	8.50	10.10	13.10	16.00	18.60	23.80	31.40	40.00	51.50
3 1/2	. . .	. . .	7.80	9.10	10.90	14.10	17.30	20.20	25.80	33.80	43.00	55.50
3 3/4	. . .	. . .	. . .	9.70	11.70	15.10	18.60	21.80	27.80	36.20	46.00	59.50
4	. . .	. . .	. . .	. . .	12.50	16.10	19.90	23.40	29.80	38.60	49.00	63.50
4 1/4	. . .	. . .	. . .	. . .	. . .	17.10	21.20	25.00	31.80	41.00	52.00	67.50
4 1/2	. . .	. . .	. . .	. . .	. . .	. . .	22.50	26.60	33.80	43.40	55.00	71.50
4 3/4	. . .	. . .	. . .	. . .	. . .	. . .	. . .	28.20	35.80	45.80	58.00	75.50
5	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	37.80	48.20	61.00	79.50
Add for ea. 1/4 inch.	.30	.40	.50	.60	.80	1.00	1.30	1.60	2.00	2.40	3.00	4.00

On all Screws of 1 inch and less in diameter, and less than 4 inches long, threads are cut three fourths of the length; beyond 4 inches, threads are cut half of the length.

In ordering Screws 1/2 inch in diameter, please state whether wanted with 12 or 13 threads.



No. 1. Button Head Cap Screws.
No. 2. Flat Head Cap Screws.
No. 3. French Head Cap Screws.

Price of Steel Screws will be 25 per cent. above the price of Iron.

Flat or Countersunk Head Cap Screws.

Milled from Solid Bar.

PRICE PER HUNDRED.

Diameter of Head.		1/4	3/8	15/32	5/8	3/4	13/16	7/8	1	1 1/8	1 3/8
Diameter of Screw.		1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4
Length over All.	3/4	$2.25	$2.50	$3.10	$4.00	$5.00	. . .	. . .	. . . .	. . . .	. . . .
	1	2.50	2.75	3.35	4.25	5.30	$6.60	. . .	. . . .	. . . .	. . . .
	1 1/4	2.75	3.00	3.60	4.50	5.60	6.90	$9.00	. . . .	. . . .	. . . .
	1 1/2	3.00	3.25	3.85	4.75	5.90	7.20	9.50	$12.00	. . . .	. . . .
	1 3/4	3.25	3.50	4.10	5.00	6.20	7.50	10.00	12.50	$14.50	. . . .
	2	. . .	3.75	4.35	5.50	6.75	8.00	10.75	13.00	15.25	$19.20
	2 1/4	. . .	. . .	4.75	6.00	7.25	8.50	11.50	13.75	16.00	20.20
	2 1/2	. . .	. . .	. . .	6.50	7.75	9.00	12.00	14.50	16.75	21.25
	2 3/4	. . .	. . .	. . .	7.00	8.25	9.50	12.75	15.25	17.50	22.40
	3	. . .	. . .	. . .	. . .	8.75	10.00	13.50	16.00	18.30	23.60
Threads to inch.		40	24	20	18	16	14	12	12	11	10
Add for each 1/4 inch.		.25	.25	.40	.50	.50	.50	.50	.75	1.00	1.25

Button Head Cap Screws.

Milled from Solid Bar.

PRICE PER HUNDRED.

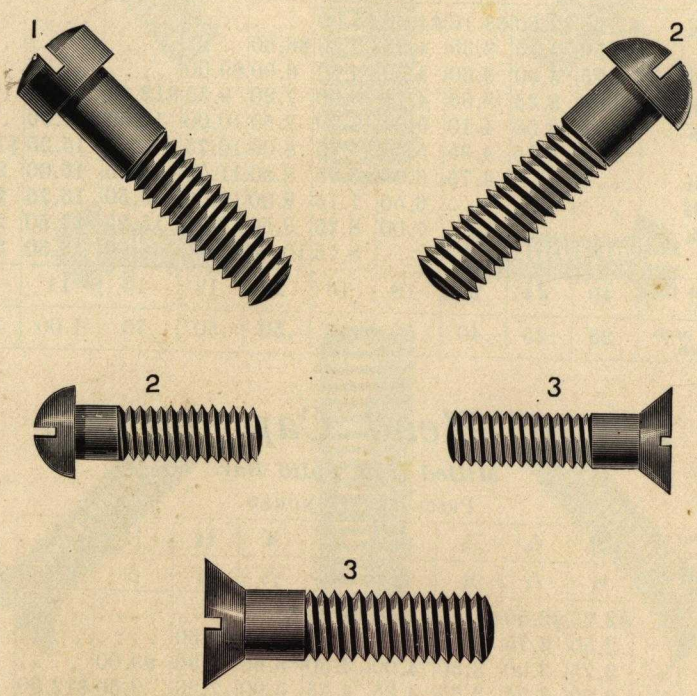
Diameter of Head.		*7/32 Full.	5/16	7/16	9/16	5/8	3/4	13/16	15/16	1	1 1/4
Diameter of Body.		1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4
Length under Head to Extreme Point.	3/4	$2.25	$2.50	$3.00	$3.50	$4.00	$5.00	. . . .	. . . .	. . . .	. . . .
	1	2.50	2.75	3.25	3.75	4.25	5.30	$6.60	. . . .	. . . .	. . . .
	1 1/4	2.75	3.00	3.50	4.00	4.50	5.60	6.90	$9.00	. . . .	. . . .
	1 1/2	3.00	3.25	3.75	4.25	4.75	5.90	7.20	9.50	$12.00	. . . .
	1 3/4	3.25	3.50	4.00	4.50	5.00	6.20	7.50	10.00	12.50	$18.20
	2	. . .	3.75	4.35	5.00	5.50	6.75	8.00	10.75	13.00	19.20
	2 1/4	. . .	. . .	4.75	5.50	6.00	7.25	8.50	11.50	13.75	20.20
	2 1/2	. . .	. . .	. . .	6.00	6.50	7.75	9.00	12.00	14.50	21.25
	2 3/4	. . .	. . .	. . .	. . .	7.00	8.25	9.50	12.75	15.25	22.40
	3	. . .	. . .	. . .	. . .	. . .	8.75	10.00	13.50	16.00	23.60
Threads to inch.		40	24	20	18	16	14	12	12	11	10
Add for each 1/4 inch.		.25	.25	.40	.50	.50	.50	.50	.75	.75	1.15

* No. 4 Wire.

In ordering Screws 1/2 inch in diameter, please state whether wanted with 12 or 13 threads.

Machine Screws.

Pressed Heads.



No. 1. Fillister Head.

No. 2. Round Head.

No. 3. Flat Head.

Iron Machine Screws.

PRICE PER GROSS.

Threads to inch.	56	48	32, 36, 40		30, 32			24, 30, 32		20, 24		16, 18 20	16, 18			14, 16			
No.	2	3	4	5	6	7	8	9	10	12	14	16	18	20	22	24	26	28	30
3/16 inch.	$0.23	0.23	0.23	0.24	0.24	...	...	...	...	...	....	....	....	....	....	....	....	....	....
1/4 inch.	.23	.23	.23	.24	.24	0.25	0 27	0.29	0.32	...	....	....	....	....	....	...	....	....	....
5/16 inch.	.23	.23	.23	.24	.24	.25	.27	.29	.32	...	....	....	....	....	....	....	....	....	....
3/8 inch.	.23	.23	.23	.24	.24	.25	.27	.29	.32	0.36	0.45	0.55	....	....	....	....	....	....	....
7/16 inch.	.23	.23	.23	.24	.24	.25	.27	.29	.32	.36	.45	.55	....	....	....	....	....	....	....
1/2 inch.	.23	.23	.23	.24	.24	.25	.27	.29	.34	.38	.45	.55	0.60	0.65	0.70	0.75	....	....	....
9/16 inch.	.23	.23	.24	.25	.27	.29	.31	.34	.36	.40	.45	.55	.60	.70	.75	.80	....	....	....
5/8 inch.	....	.25	.26	.27	.29	.31	.34	.36	.38	.43	.48	.60	.65	.75	.85	.90	....	....	....
3/4 inch.	....	.27	.30	.32	.34	.36	.38	.40	.42	.48	.53	.60	.67	.80	.90	.95	1.10	....	....
7/8 inch.	....	...	...	.35	.37	.39	.42	.44	.47	.53	.59	.67	.75	.85	.95	1.05	1.20	1.30	....
1 inch.	....	...	...	...	.41	.43	.46	.48	.51	.58	.65	.75	.81	.91	1.05	1.15	1.30	1.45	1.65
1 1/8 inch.	....	...	...	...	...	.47	.50	.53	.56	.63	.70	.79	.89	1.00	1.10	1.25	1.40	1.55	1.75
1 1/4 inch.	....	...	...	...	...	...	.55	.57	.60	.68	.76	.85	.95	1.05	1.20	1.35	1.50	1.70	1.90
1 3/8 inch.	....	...	...	...	...	...	...	.62	.65	.73	.82	.90	1.05	1.15	1.30	1.45	1.65	1.85	2.05
1 1/2 inch.	....	...	...	...	...	...	...	...	.70	.80	.90	1.00	1.15	1.25	1.45	1.60	1.80	2.00	2.25
1 3/4 inch.	....	...	...	...	...	...	...	...	...	.95	1.10	1.20	1.35	1.50	1.70	1.90	2.15	2.40	2.70
2 inch.	....	...	...	...	...	...	...	...	...	...	1.25	1.40	1.60	1.80	2.00	2.25	2.55	2.85	3.20
2 1/4 inch.	....	...	...	...	...	...	...	...	...	...	....	1.70	1.90	2.15	2.40	2.70	3.05	3 40	3.80
2 1/2 inch.	...	...	...	...	...	...	...	...	...	...	....	....	....	2.55	2.85	3.20	3.60	4.05	4.50
2 3/4 inch.	....	...	...	...	...	...	...	...	...	...	....	....	....	3.00	3.40	3.80	4.25	4.80	5.35
3 inch.	....	...	...	...	...	...	...	...	...	...	....	....	....	....	4 00	4.50	5.05	5.70	6.35

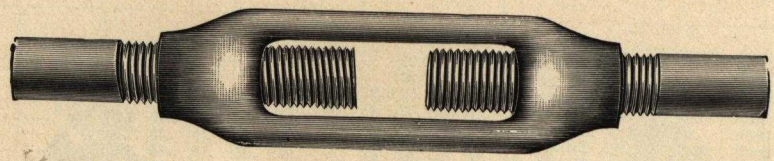
Brass Machine Screws.

PRICE PER GROSS.

Threads to inch.	56	48	32, 36, 40		30, 32			24, 30, 32		20, 24		16, 18 20	16, 18			14, 16			
No.	2	3	4	5	6	7	8	9	10	12	14	16	18	20	22	24	26	28	30
3/16 inch.	$0.29	0.29	0.29	0.31	0.33	...	...	...	...	...	....	....	....	....	....	....	....	....	....
1/4 inch.	.29	.29	.29	.31	.33	0.38	0.45	0.52	0.60	...	....	....	....	....	....	....	....	....	....
5/16 inch.	.29	.29	.29	.31	.33	.38	.45	.52	.60	0.75	....	....	....	....	....	....	....	....	....
3/8 inch.	.29	.29	.29	.31	.33	.38	.45	.52	.60	.75	1.00	1.25	....	....	....	....	....	....	....
7/16 inch.	.29	.29	.30	.32	.34	.40	.47	.55	.65	.80	1.05	1.30	....	....	....	....	....	....	....
1/2 inch.	.29	.30	.32	.34	.36	.42	.50	.57	.65	.85	1.10	1.35	1.75	2.10	2.60	3.15	....	....	....
9/16 inch.	.30	.32	.35	.37	.40	.45	.52	.60	.70	.90	1.15	1 45	1.80	2.15	2.70	3.25	....	....	....
5/8 inch.	....	.35	.40	.42	.45	.50	.55	.65	.75	.95	1.20	1.50	1.90	2.50	3.00	3.50	....	....	....
3/4 inch.	....	.45	.50	.52	.55	.60	.65	.75	.85	1.05	1.30	1.65	2.05	2.75	3.25	3.75	4.50	....	....
7/8 inch.	....	...	...	.62	.65	.70	.75	.85	1.00	1.20	1.45	1 80	2.20	2.85	3.50	4.00	4.75	5.85	....
1 inch.	....	...	...	...	.75	.82	.90	1.00	1.10	1.35	1.60	1.95	2 35	3.10	3.75	4.75	5.25	6.35	7.25
1 1/8 inch.	....	...	...	...	...	.95	1.00	1.10	1 25	1.45	1.75	2.10	2.55	3.40	4 00	5.00	5.65	6.75	7.75
1 1/4 inch.	....	...	...	...	...	...	1.10	1.25	1.40	1.60	1 90	2.25	2.75	3.65	4.25	5.30	6.00	7.15	8.30
1 3/8 inch.	....	...	...	...	...	...	...	1 40	1.50	1.75	2 05	2.40	2.95	3.90	4.55	5.65	6 40	7.65	8.90
1 1/2 inch.	....	...	...	...	...	...	...	...	1.65	1.90	2.20	2.60	3.20	4.15	4 85	6.05	6.85	8.15	9.50
1 3/4 inch.	....	...	...	...	...	...	...	...	...	2.25	2.55	3.00	3.70	4.65	5.45	6.85	7.75	9.00	10.80
2 inch.	....	...	...	...	...	...	...	...	...	...	3.00	3.50	4.30	5.00	5.90	7 00	8.50	10.30	12.40
2 1/4 inch.	....	...	...	...	...	...	...	...	...	...	....	4.00	4.95	5.75	6.75	8 00	9.70	11.70	14.20
2 1/2 inch.	....	...	...	...	...	...	...	...	...	...	....	....	5.75	6.65	7.75	9.20	11.10	13.40	16.20
2 3/4 inch.	...	...	...	...	...	...	...	...	...	...	....	....	....	7.70	8.90	10.50	12 70	15.40	18.60
3 inch.	....	...	...	...	...	...	...	...	...	...	....	....	....	....	10.20	12.00	14.50	17.60	21.20

On Machine Screws differing from our regular standards, special prices will be given on application.

Pressed Wrought Iron Open Turnbuckles.



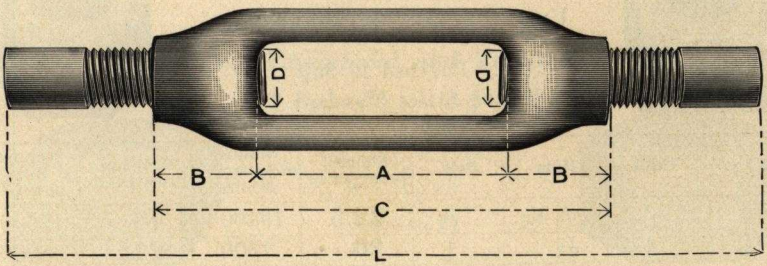
With Right and Left Stub Bolt Ends.

Size.	Price.	Size.	Price.
3/8 inch,	$0.40	1¾ inch,	$2.00
7/16 inch,	.42	1⅞ inch,	2.25
½ inch,	.45	2 inch,	2.65
9/16 inch,	.48	2⅛ inch,	3.10
⅝ inch,	.50	2¼ inch,	3.50
¾ inch,	.63	2⅜ inch,	4.00
⅞ inch,	.75	2½ inch,	4.50
1 inch,	.88	2⅝ inch,	5.00
1⅛ inch,	1.00	2¾ inch,	5.50
1¼ inch,	1.25	2⅞ inch,	6.00
1⅜ inch,	1.38	3 inch,	6.50
1½ inch,	1.50	3¼ inch,	8.00
1⅝ inch,	1.75	3½ inch,	10.00

They have a guaranteed strength of 60,000 pounds per square inch of section of bolt at bottom of thread. Stub Bolt Ends are made of good bridge iron having tensile strength of 50,000 pounds per square inch.

Open Buckles of this form can be adjusted with a bar, hook, or wrench, and have the great advantage of showing the ends of the bolts, so that inspectors can see that they have a good hold of thread, and do not butt together.

Dimensions.



D. Size=Diameter of Screw.
B. Length of Tapped Heads=1½ D.
L. Total Length of Buckle and Stub Ends, when open.
A. Length in Clear between Heads.
C. Total Length of Buckle.

Size D.	A	B	C	L	Size D.	A	B	C	L
$\frac{3}{8}$	6	$\frac{9}{16}$	$7\frac{1}{8}$	22	$1\frac{3}{4}$	6	$2\frac{5}{8}$	$11\frac{1}{4}$	28
$\frac{7}{16}$	6	$\frac{21}{32}$	$7\frac{5}{16}$	22	$1\frac{7}{8}$	6	$2\frac{13}{16}$	$11\frac{5}{8}$	29
$\frac{1}{2}$	6	$\frac{3}{4}$	$7\frac{1}{2}$	22	2	6	3	12	29
$\frac{9}{16}$	6	$\frac{27}{32}$	$7\frac{11}{16}$	22	$2\frac{1}{8}$	6	$3\frac{3}{16}$	$12\frac{3}{8}$	29
$\frac{5}{8}$	6	$\frac{15}{16}$	$7\frac{7}{8}$	22	$2\frac{1}{4}$	6	$3\frac{3}{8}$	$12\frac{3}{4}$	30
$\frac{3}{4}$	6	$1\frac{1}{8}$	$8\frac{1}{4}$	23	$2\frac{3}{8}$	6	$3\frac{9}{16}$	$13\frac{1}{8}$	31
$\frac{7}{8}$	6	$1\frac{5}{16}$	$8\frac{5}{8}$	24	$2\frac{1}{2}$	6	$3\frac{3}{4}$	$13\frac{1}{2}$	32
1	6	$1\frac{1}{2}$	9	25	$2\frac{5}{8}$	6	$3\frac{15}{16}$	$13\frac{7}{8}$	32
$1\frac{1}{8}$	6	$1\frac{11}{16}$	$9\frac{3}{8}$	25	$2\frac{3}{4}$	6	$4\frac{1}{8}$	$14\frac{1}{4}$	33
$1\frac{1}{4}$	6	$1\frac{7}{8}$	$9\frac{3}{4}$	26	$2\frac{7}{8}$	6	$4\frac{5}{16}$	$14\frac{5}{8}$	33
$1\frac{3}{8}$	6	$2\frac{1}{16}$	$10\frac{1}{8}$	27	3	6	$4\frac{1}{2}$	15	34
$1\frac{1}{2}$	6	$2\frac{1}{4}$	$10\frac{1}{2}$	27	$3\frac{1}{4}$	6	$4\frac{7}{8}$	$15\frac{3}{4}$	36
$1\frac{5}{8}$	6	$2\frac{7}{16}$	$10\frac{7}{8}$	28	$3\frac{1}{2}$	6	$5\frac{1}{4}$	$16\frac{1}{2}$	37

Lengths given above are Standard for Bridge, Roof and ordinary Truss Buckles.

For Second Length, viz.: 9 inches between heads (A) and 6 inches longer over all (L), add 25 per cent. to list prices.

For Third Length, viz.: 12 inches between heads (A) and 12 inches longer over all (L), add 50 per cent. to list prices.

For Fourth Length, viz.: 15 inches between heads (A) and 18 inches longer over all (L), add 100 per cent. to list prices.

For Fifth Length, viz.: 18 inches between heads (A) and 24 inches longer over all (L), add 150 per cent. to list prices.

Sixth Length Buckles, viz.: 24 inches between heads (A) and 36 inches longer over all (L), are three and one-half times the prices given in list.

Discounts same as on Standard Lengths.

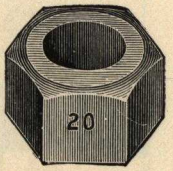
For prices of Buckles without Bolt Ends, deduct 20 per cent. from above figures.

Cold Punched Nuts.

Chamfered and Trimmed.

UNITED STATES STANDARD SIZES.

Punched to Suit
United States Standard Taps.

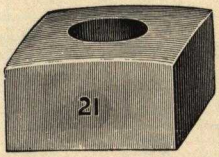


Wide.	Thick.	Hole.	Bolt.	Square. Price per lb.	Number of Square in 100 lbs.	Hexagon. Price per lb.	Number of Hexagon in 100 lbs.
$\frac{3}{8}$	$\frac{3}{16}$	$\frac{5}{32}$ sct.	$\frac{3}{16}$	**32.5**	16400	**48.**	19600
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{13}{64}$	$\frac{1}{4}$	**20.**	7300	**27.**	8200
$\frac{19}{32}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	**18.**	4700	**24.**	5400
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{19}{64}$	$\frac{3}{8}$	**14.5**	2550	**18.5**	3000
$\frac{25}{32}$	$\frac{7}{16}$	$\frac{11}{32}$	$\frac{7}{16}$	**14.**	1700	**18.**	2030
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{25}{64}$	$\frac{1}{2}$	**11.3**	1180	**14.**	1400
$\frac{31}{32}$	$\frac{9}{16}$	$\frac{29}{64}$	$\frac{9}{16}$	**11.3**	890	**14.**	1080
$1\frac{1}{16}$	$\frac{5}{8}$	$\frac{33}{64}$	$\frac{5}{8}$	**10.**	645	**12.5**	780
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	**9.4**	380	**10.9**	470
$1\frac{7}{16}$	$\frac{7}{8}$	$\frac{47}{64}$	$\frac{7}{8}$	**9.4**	260	**10.9**	310
$1\frac{5}{8}$	1	$\frac{27}{32}$	1	**9.4**	172	**10 9**	212
$1\frac{13}{16}$	$1\frac{1}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	**9.4**	128	**10.9**	148
2	$1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	**10.1**	96	**11.5**	111
$2\frac{3}{16}$	$1\frac{3}{8}$	$1\frac{5}{32}$	$1\frac{3}{8}$	**10.3**	70	**12.**	82
$2\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{9}{32}$	$1\frac{1}{2}$	**10.7**	58	**12.6**	68
$2\frac{9}{16}$	$1\frac{5}{8}$	$1\frac{13}{32}$	$1\frac{5}{8}$	**11.1**	44	**13.2**	53
$2\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	**11.5**	35	**14.**	42
$2\frac{15}{16}$	$1\frac{7}{8}$	$1\frac{5}{8}$	$1\frac{7}{8}$	**12.**	29	**14.5**	36
$3\frac{1}{8}$	2	$1\frac{23}{32}$	2	**12.**	24	**14.5**	29
$3\frac{5}{16}$	$2\frac{1}{8}$	$1\frac{27}{32}$	$2\frac{1}{8}$	**12.5**	20	**15.**	25
$3\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{61}{64}$	$2\frac{1}{4}$	**12.5**	18	**15.**	21
*$3\frac{11}{16}$	$2\frac{3}{8}$	$2\frac{1}{16}$	$2\frac{3}{8}$	**13.5**	15	**16.**	$19\frac{1}{2}$
$3\frac{7}{8}$	$2\frac{1}{2}$	$2\frac{3}{16}$	$2\frac{1}{2}$	**13.5**	12	**16.**	$15\frac{1}{2}$
$4\frac{1}{16}$	$2\frac{5}{8}$	$2\frac{5}{16}$	$2\frac{5}{8}$	**14.**	11	**16.5**	14
$4\frac{1}{4}$	$2\frac{3}{4}$	$2\frac{7}{16}$	$2\frac{3}{4}$	**14.**	9	**16.5**	11
$4\frac{5}{8}$	3	$2\frac{11}{16}$	3	**14.5**	$7\frac{1}{3}$	**17.**	$8\frac{1}{2}$
5	$3\frac{1}{4}$	$2\frac{15}{16}$	$3\frac{1}{4}$	**14.5**	6	**17.**	7
$5\frac{3}{8}$	$3\frac{1}{2}$	$3\frac{5}{32}$	$3\frac{1}{2}$	**14.5**	5	**17.**	$5\frac{3}{4}$
$5\frac{3}{4}$	$3\frac{3}{4}$	$3\frac{3}{8}$	$3\frac{3}{4}$	**15.5**	$4\frac{1}{8}$	**18.**	$4\frac{5}{6}$
$6\frac{1}{8}$	4	$3\frac{9}{16}$	4	**15.5**	$3\frac{1}{3}$	**18.**	4

Nuts with holes differing from Standard Sizes, extra.
* Nuts for 2⅜ inch Bolt and larger are forged.

Cold Punched Nuts.

Not Chamfered and Trimmed.

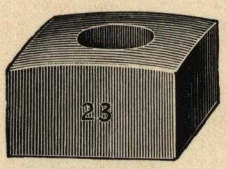


UNITED STATES
STANDARD
SIZES.

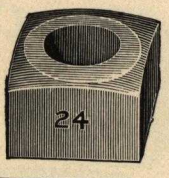
Wide.	Thick.	Hole.	Bolt.	Square. Price per lb.	Number of Square in 100 lbs.	Hexagon. Price per lb.	Number of Hexagon in 100 lbs.
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{13}{64}$	$\frac{1}{4}$	**13.8**	6700	**21.**	7500
$\frac{19}{32}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	**12.8**	4450	**19.**	5100
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{19}{64}$	$\frac{3}{8}$	**11.**	2400	**14.7**	2800
$\frac{25}{32}$	$\frac{7}{16}$	$\frac{11}{32}$	$\frac{7}{16}$	**10.5**	1550	**13.7**	1830
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{25}{64}$	$\frac{1}{2}$	**9.3**	1100	**11.5**	1300
$\frac{31}{32}$	$\frac{9}{16}$	$\frac{29}{64}$	$\frac{9}{16}$	**9.3**	825	**11.5**	1000
$1\frac{1}{16}$	$\frac{5}{8}$	$\frac{33}{64}$	$\frac{5}{8}$	**8.9**	596	**10.7**	725
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	**8.6**	348	**10.2**	438
$1\frac{7}{16}$	$\frac{7}{8}$	$\frac{47}{64}$	$\frac{7}{8}$	**8.6**	228	**10.2**	296
$1\frac{5}{8}$	1	$\frac{27}{32}$	1	**8.4**	156	**10.**	198
$1\frac{13}{16}$	$1\frac{1}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	**8.4**	124	**10.**	152
2	$1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	**8.8**	88	**10.5**	103
$2\frac{3}{16}$	$1\frac{3}{8}$	$1\frac{5}{32}$	$1\frac{3}{8}$	**8.8**	65	**10.5**	77
$2\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{9}{32}$	$1\frac{1}{2}$	**9.6**	54	**11.3**	63
$2\frac{9}{16}$	$1\frac{5}{8}$	$1\frac{13}{32}$	$1\frac{5}{8}$	**9.6**	41	**11.3**	50
$2\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	**10.2**	33	**12.1**	40
$2\frac{15}{16}$	$1\frac{7}{8}$	$1\frac{5}{8}$	$1\frac{7}{8}$	**10.2**	27	**12.1**	34
$3\frac{1}{8}$	2	$1\frac{23}{32}$	2	**10.6**	23	**12.6**	28
$3\frac{5}{16}$	$2\frac{1}{8}$	$1\frac{27}{32}$	$2\frac{1}{8}$	**11.**	19	**13.**	24
$3\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{61}{64}$	$2\frac{1}{4}$	**11.5**	17	**13.5**	20

Nuts with holes differing from Standard Sizes, extra.
Larger sizes charged at same rates as Chamfered and Trimmed Nuts on page 36.
For additional charges for tapping refer to page 51.

Cold Punched Square Nuts.



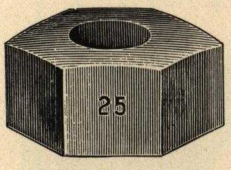
MANUFACTURERS'
STANDARD
LIST.



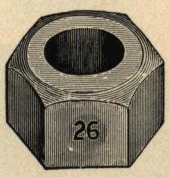
Wide.	Thick.	Hole.	Bolt.	Plain. Price per lb.	Number Plain Nuts in 100 lbs.	Cupped. Price per lb.	Number Cupp'd Nuts in 100 lbs.
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{1}{4}$	**13.8**	6750	**20.**	7200
$\frac{5}{8}$	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{5}{16}$	**12.3**	3540	**16.**	4000
$\frac{3}{4}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{3}{8}$	**10.8**	2100	**13.5**	2380
$\frac{7}{8}$	$\frac{7}{16}$	$\frac{13}{32}$	$\frac{7}{16}$	**9.3**	1330	**11.3**	1460
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$	**9.3**	1120	**11.3**	1230
1	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$	**9.**	840	**10.**	930
$1\frac{1}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	**8.8**	650	**9.8**	700
$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	**8.8**	580	**9.8**	620
$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	**8.5**	435	**9.2**	480
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	**8.6**	360	**9.4**	400
$1\frac{3}{8}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	**8.5**	315	**9.2**	350
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	**8.2**	244	**8.8**	270
$1\frac{1}{2}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	**8.5**	215	**9.2**	240
$1\frac{5}{8}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	**8.2**	180	**8.8**	205
$1\frac{3}{4}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	**8.2**	163	**8.8**	183
$1\frac{3}{4}$	1	$\frac{7}{8}$	1	**8.2**	141	**8.8**	156
2	1	$\frac{7}{8}$	1	**8.2**	105	**8.8**	115
2	$1\frac{1}{8}$	$1\frac{5}{16}$	$1\frac{1}{8}$	**8.2**	98	**8.8**	106
$2\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{5}{16}$	$1\frac{1}{8}$	**8.2**	74	**8.8**	81
$2\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	**8.6**	64	**9.3**	70
$2\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	**8.6**	52	**9.3**	57
$2\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{3}{16}$	$1\frac{3}{8}$	**8.6**	40	**9.3**	44
3	$1\frac{1}{2}$	$1\frac{5}{16}$	$1\frac{1}{2}$	**9.2**	$31\frac{1}{2}$	**10.**	35
$3\frac{1}{4}$	$1\frac{5}{8}$	$1\frac{7}{16}$	$1\frac{5}{8}$	**9.4**	22	**10.2**	25
$3\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{3}{4}$	**9.8**	18	**10.6**	20
$3\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{11}{16}$	$1\frac{7}{8}$	**10.**	15	**10.8**	16
4	2	$1\frac{13}{16}$	2	**10.2**	$12\frac{1}{4}$	**11.**	$12\frac{3}{4}$

Nuts with holes differing from Standard Sizes, extra.
For additional charges for tapping refer to page 51.

Cold Punched Hexagon Nuts.



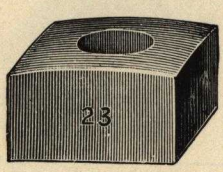
MANUFACTURERS'
STANDARD
LIST.



Wide.	Thick.	Hole.	Bolt.	Plain. Price per lb.	Number Plain Nuts in 100 lbs.	Cupped. Price per lb.	Number Cupp'd Nuts in 100 lbs.
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{1}{4}$	**21.**	7800	**27.**	8500
$\frac{5}{8}$	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{5}{16}$	**17.5**	4440	**21.5**	4790
$\frac{3}{4}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{3}{8}$	**13.8**	2330	**17.5**	2510
$\frac{7}{8}$	$\frac{7}{16}$	$\frac{13}{32}$	$\frac{7}{16}$	**11.5**	1430	**14.**	1594
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$	**11.5**	1330	**14.**	1437
1	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$	**11.**	1010	**12.5**	1090
1	$\frac{9}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	**11.**	930	**12.5**	980
$1\frac{1}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	**10.6**	730	**12.**	800
$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	**10.6**	630	**12.**	660
$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{9}{16}$	$\frac{5}{8}$	**10.6**	560	**12.**	588
$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$	**10.1**	514	**11.**	541
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{16}$	$\frac{5}{8}$	**10.1**	435	**11.**	460
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	**10.2**	450	**11.**	485
$1\frac{3}{8}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	**10.1**	376	**11.**	394
$1\frac{3}{8}$	$\frac{7}{8}$	$\frac{21}{32}$	$\frac{3}{4}$	**10.1**	330	**11.**	347
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{21}{32}$	$\frac{3}{4}$	**9.7**	290	**10.6**	310
$1\frac{1}{2}$	$\frac{7}{8}$	$\frac{21}{32}$	$\frac{3}{4}$	**9.7**	250	**10.6**	266
$1\frac{1}{2}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	**10.1**	265	**11.**	283
$1\frac{1}{2}$	1	$\frac{25}{32}$	$\frac{7}{8}$	**10.1**	218	**11.**	240
$1\frac{5}{8}$	$\frac{7}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	**9.7**	221	**10.6**	235
$1\frac{5}{8}$	1	$\frac{25}{32}$	$\frac{7}{8}$	**9.7**	197	**10.6**	210
$1\frac{3}{4}$	1	$\frac{7}{8}$	1	**9.7**	174	**10.6**	186
$1\frac{3}{4}$	$1\frac{1}{8}$	$\frac{7}{8}$	1	**9.7**	157	**10.6**	168
2	$1\frac{1}{4}$	$\frac{15}{16}$	$1\frac{1}{8}$	**9.7**	100	**10.6**	110
$2\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{1}{4}$	**10.1**	72	**11.2**	79
$2\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{3}{8}$	**10.1**	54	**11.2**	59
$2\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{5}{16}$	$1\frac{1}{2}$	**10.3**	41	**11.5**	45
3	$1\frac{3}{4}$	$1\frac{7}{16}$	$1\frac{5}{8}$	**10.9**	30	**12.**	33
$3\frac{1}{4}$	$1\frac{7}{8}$	$1\frac{9}{16}$	$1\frac{3}{4}$	**11.2**	$24\frac{1}{2}$	**12.3**	27
$3\frac{1}{2}$	2	$1\frac{11}{16}$	$1\frac{7}{8}$	**12.**	$20\frac{1}{4}$	**13.**	$21\frac{3}{4}$
$3\frac{1}{2}$	2	$1\frac{13}{16}$	2	**12.5**	$20\frac{1}{2}$	**13.5**	22
$3\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{13}{16}$	2	**12.5**	$19\frac{1}{2}$	**13.5**	$20\frac{1}{2}$

Nuts with holes differing from Standard Sizes, extra.

Cold Punched Square Nuts.



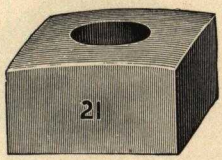
Extra Sizes.

IN 200 POUND LOTS.

(Smaller Lots Extra.)

Wide.	Thick.	Hole.	Bolt.	Plain. Price per Pound.	C. T. & D. Price per Pound.
$\frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	19.	24.
$\frac{7}{16}$	$\frac{3}{16}$	$\frac{13}{64}$	$\frac{1}{4}$	26.	32.
$\frac{1}{2}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	19.	24.
$\frac{17}{32}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{5}{16}$	22.	26.
$\frac{9}{16}$	$\frac{1}{4}$	$\frac{17}{64}$	$\frac{5}{16}$	17.	21.
$\frac{9}{16}$	$\frac{5}{16}$	$\frac{17}{64}$	$\frac{5}{16}$	15.	19.
$\frac{5}{8}$	$\frac{3}{16}$	$\frac{9}{32}$	$\frac{5}{16}$	18.	22.
$\frac{5}{8}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	15.	19.
$\frac{5}{8}$	$\frac{1}{4}$	$\frac{19}{64}$	$\frac{3}{8}$	18.	22.
$\frac{5}{8}$	$\frac{5}{16}$	$\frac{19}{64}$	$\frac{3}{8}$	15.	19.
$\frac{5}{8}$	$\frac{3}{8}$	$\frac{19}{64}$	$\frac{3}{8}$	13.	16.5
$\frac{11}{16}$	$\frac{5}{16}$	$\frac{19}{64}$	$\frac{3}{8}$	13.	16.5
$\frac{3}{4}$	$\frac{1}{4}$	$\frac{21}{64}$	$\frac{3}{8}$	14.5	18.5
$\frac{3}{4}$	$\frac{5}{16}$	$\frac{21}{64}$	$\frac{3}{8}$	12.	15.
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{7}{16}$	13.	16.
$\frac{23}{32}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{7}{16}$	13.	16.
$\frac{3}{4}$	$\frac{5}{16}$ or $\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	12.5	15.5
$\frac{3}{4}$	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	11.5	14.
$\frac{7}{8}$	$\frac{3}{8}$	$\frac{13}{32}$	$\frac{7}{16}$	10.	12.5
$\frac{13}{16}$	$\frac{7}{16}$	$\frac{25}{64}$	$\frac{1}{2}$	11.	13.5
$\frac{13}{16}$	$\frac{1}{2}$	$\frac{25}{64}$	$\frac{1}{2}$	11.	13.5
$\frac{7}{8}$	$\frac{1}{4}$ or $\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	12.5	15.5
$\frac{7}{8}$	$\frac{3}{8}$ or $\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	10.	12.5
1	$\frac{3}{8}$ or $\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	9.5	11.5
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{15}{32}$	$\frac{9}{16}$	11.	13.
$\frac{29}{32}$	$\frac{1}{2}$	$\frac{29}{64}$	$\frac{9}{16}$	11.	13.
1	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{9}{16}$	11.	13.
1	$\frac{1}{2}$ or $\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	10.	11.
$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{9}{16}$	9.	10.
1	$\frac{9}{16}$	$\frac{33}{64}$	$\frac{5}{8}$	10.5	11.5
1	$\frac{5}{8}$	$\frac{33}{64}$	$\frac{5}{8}$	10.	11.

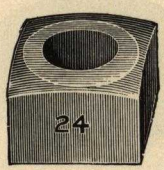
Cold Punched Square Nuts.



Extra Sizes.

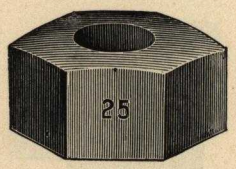
IN 200 POUND LOTS.

(Smaller Lots Extra.)



Wide.	Thick.	Hole.	Bolt.	Plain. Price per Pound.	C. T. & D. Price per Pound.
$1\frac{1}{16}$	$\frac{1}{2}$	$\frac{17}{32}$	$\frac{5}{8}$	10.	11.5
$1\frac{1}{8}$	$\frac{1}{2}$ or $\frac{9}{16}$	$\frac{17}{32}$	$\frac{5}{8}$	9.5	10.5
$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{17}{32}$	$\frac{5}{8}$	9.5	10.2
$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	9.	10.
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{16}$	$\frac{5}{8}$	9.	9.8
$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{37}{64}$	$\frac{11}{16}$	9.	9.8
$1\frac{3}{8}$	$\frac{5}{8}$	$\frac{19}{32}$	$\frac{11}{16}$	9.	9.8
$1\frac{3}{16}$	$\frac{11}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	11.	11.5
$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	10.	11.
$1\frac{1}{4}$	$\frac{5}{8}$ or $\frac{7}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	9.5	10.2
$1\frac{3}{8}$	$\frac{5}{8}$ or $\frac{7}{8}$	$\frac{21}{32}$	$\frac{3}{4}$	9.	9.8
$1\frac{3}{8}$	$\frac{13}{16}$	$\frac{47}{64}$	$\frac{7}{8}$	10.	10.5
$1\frac{3}{8}$	$\frac{7}{8}$	$\frac{47}{64}$	$\frac{7}{8}$	9.5	10.2
$1\frac{7}{16}$	$\frac{1}{2}$	$\frac{47}{64}$	$\frac{7}{8}$	11.	12.
$1\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	10.	11.
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$	9.	9.8
$1\frac{1}{2}$	$\frac{3}{4}$, $\frac{13}{16}$ or $\frac{7}{8}$	$\frac{27}{32}$	1	10.5	11.
$1\frac{9}{16}$	$\frac{15}{16}$	$\frac{27}{32}$	1	10.	10.5
$1\frac{5}{8}$	$\frac{3}{4}$	$\frac{27}{32}$	1	9.5	10.
$1\frac{3}{4}$	$\frac{3}{4}$ or $\frac{7}{8}$	$\frac{7}{8}$	1	8.5	9.2
$1\frac{3}{4}$	$1\frac{1}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	9.5	10.
$1\frac{13}{16}$	$\frac{3}{4}$	$\frac{15}{16}$	$1\frac{1}{8}$	9.5	10.
$1\frac{7}{8}$	$1\frac{1}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	9.	9.8
2	1	$\frac{15}{16}$	$1\frac{1}{8}$	8.5	9.2
2	$\frac{3}{4}$ or $1\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{1}{4}$	10.	10.8
$2\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{1}{4}$	9.	9.8
$2\frac{1}{2}$	$1\frac{3}{8}$ or $1\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{3}{8}$	9.5	10.
$2\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{5}{16}$	$1\frac{1}{2}$	10.	10.5
$2\frac{3}{4}$	$1\frac{1}{2}$ or $1\frac{5}{8}$	$1\frac{5}{16}$	$1\frac{1}{2}$	9.6	10.5
$3\frac{1}{2}$	$1\frac{1}{2}$ or $1\frac{7}{8}$	$1\frac{9}{16}$	$1\frac{3}{4}$	10.	11.
$3\frac{1}{4}$	$1\frac{5}{8}$	$1\frac{13}{16}$	2	11.5	12 5

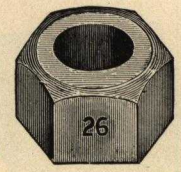
Cold Punched Hexagon Nuts.



Extra Sizes.

IN 200 POUND LOTS.

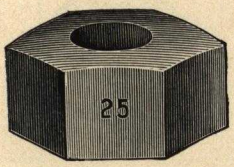
(Smaller Lots Extra.)



Wide.	Thick.	Hole.	Bolt.	Plain. Price per Pound.	Cupped. Price per Pound.
$\frac{7}{16}$	$\frac{3}{16}$	$\frac{13}{64}$	$\frac{1}{4}$	38.	43.
$\frac{7}{16}$	$\frac{1}{4}$	$\frac{13}{64}$	$\frac{1}{4}$	30.	35.
$\frac{1}{2}$	$\frac{3}{16}$	$\frac{13}{64}$	$\frac{1}{4}$	28.	33.
$\frac{17}{32}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{5}{16}$	29.	34.
$\frac{9}{16}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{5}{16}$	25.	29.
$\frac{9}{16}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	22.	26.
$\frac{19}{32}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{5}{16}$	23.	27.
$\frac{5}{8}$	$\frac{3}{16}$	$\frac{17}{64}$	$\frac{5}{16}$	26.	30.
$\frac{5}{8}$	$\frac{1}{4}$	$\frac{17}{64}$	$\frac{5}{16}$	21.	25.
$\frac{5}{8}$	$\frac{1}{4}$	$\frac{19}{64}$	$\frac{3}{8}$	26.	30.
$\frac{5}{8}$	$\frac{5}{16}$	$\frac{19}{64}$	$\frac{3}{8}$	21.5	25.5
$\frac{5}{8}$	$\frac{3}{8}$	$\frac{19}{64}$	$\frac{3}{8}$	20.	24.
$\frac{11}{16}$	$\frac{1}{4}$	$\frac{19}{64}$	$\frac{3}{8}$	21.	25.
$\frac{11}{16}$	$\frac{5}{16}$	$\frac{19}{64}$	$\frac{3}{8}$	18.	21.
$\frac{11}{16}$	$\frac{7}{16}$	$\frac{19}{64}$	$\frac{3}{8}$	15.	19.
$\frac{3}{4}$	$\frac{1}{4}$	$\frac{21}{64}$	$\frac{3}{8}$	18.5	21.5
$\frac{3}{4}$	$\frac{5}{16}$	$\frac{21}{64}$	$\frac{3}{8}$	16.5	20.
$\frac{3}{4}$	$\frac{7}{16}$ or $\frac{1}{2}$	$\frac{11}{32}$	$\frac{3}{8}$	15.5	18.5
$\frac{13}{16}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{3}{8}$	15.	18.
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{7}{16}$	18.	21.5
$\frac{23}{32}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{7}{16}$	18.	21.5
$\frac{3}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{7}{16}$	19.	22.
$\frac{3}{4}$	$\frac{5}{16}$ or $\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	18.	21.
$\frac{3}{4}$	$\frac{7}{16}$ or $\frac{1}{2}$	$\frac{3}{8}$	$\frac{7}{16}$	17.	20.
$\frac{25}{32}$	$\frac{5}{16}$ or $\frac{3}{8}$	$\frac{11}{32}$	$\frac{7}{16}$	17.	20.
$\frac{13}{16}$	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	15.5	18.
$\frac{7}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{7}{16}$	16.5	19.5
$\frac{7}{8}$	$\frac{5}{16}$ or $\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	14.	16.5
$\frac{3}{4}$	$\frac{3}{8}$	$\frac{25}{64}$	$\frac{1}{2}$	19.	22.
$\frac{3}{4}$	$\frac{7}{16}$ or $\frac{1}{2}$	$\frac{25}{64}$	$\frac{1}{2}$	18.	21.
$\frac{25}{32}$	$\frac{7}{16}$	$\frac{25}{64}$	$\frac{1}{2}$	16.	19.
$\frac{13}{16}$	$\frac{7}{16}$	$\frac{25}{64}$	$\frac{1}{2}$	15.5	18.
$\frac{13}{16}$	$\frac{1}{2}$	$\frac{25}{64}$	$\frac{1}{2}$	13.5	16.
$\frac{7}{8}$	$\frac{1}{4}$	$\frac{25}{64}$	$\frac{1}{2}$	17.	20.
$\frac{7}{8}$	$\frac{5}{16}$	$\frac{25}{64}$	$\frac{1}{2}$	14.5	17.
$\frac{7}{8}$	$\frac{7}{16}$ or $\frac{5}{8}$	$\frac{25}{64}$	$\frac{1}{2}$	13.	15.5
$\frac{7}{8}$	$\frac{3}{4}$	$\frac{13}{32}$	$\frac{1}{2}$	14.	16.5

Special rates for quantity quoted on receipt of specifications.

Cold Punched Hexagon Nuts.



Extra Sizes.

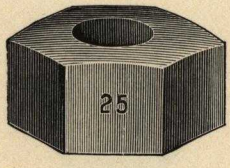
IN 200 POUND LOTS.

(Smaller Lots Extra.)

Wide.	Thick.	Hole.	Bolt.	Plain. Price per Pound.	Cupped. Price per Pound.
$\frac{15}{16}$	$\frac{1}{2}$ or $\frac{9}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	13.	15.
1	$\frac{3}{8}$ or $\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	12.5	14.5
1	$\frac{5}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	11.5	13.
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{29}{64}$	$\frac{9}{16}$	14.5	17.
$\frac{29}{32}$	$\frac{1}{2}$	$\frac{29}{64}$	$\frac{9}{16}$	14.5	17.
$\frac{29}{32}$	$\frac{9}{16}$	$\frac{29}{64}$	$\frac{9}{16}$	14.	16.
$\frac{31}{32}$	$\frac{7}{16}$ or $\frac{1}{2}$	$\frac{29}{64}$	$\frac{9}{16}$	14.	16.
1	$\frac{1}{2}$ or $\frac{9}{16}$	$\frac{15}{32}$	$\frac{9}{16}$	12.5	14.5
1	$\frac{5}{8}$ or $\frac{3}{4}$	$\frac{15}{32}$	$\frac{9}{16}$	12.	13.5
1	$\frac{7}{16}$ or $\frac{1}{2}$	$\frac{33}{64}$	$\frac{5}{8}$	14.5	16.5
1	$\frac{9}{16}$	$\frac{33}{64}$	$\frac{5}{8}$	13.5	15.
1	$\frac{5}{8}$ or $\frac{13}{16}$	$\frac{33}{64}$	$\frac{5}{8}$	13.	14.5
$1\frac{1}{16}$	$\frac{5}{16}$	$\frac{33}{64}$	$\frac{5}{8}$	14.5	17.
$1\frac{1}{16}$	$\frac{3}{8}$ or $\frac{7}{16}$	$\frac{33}{64}$	$\frac{5}{8}$	13.5	15.5
$1\frac{1}{16}$	$\frac{9}{16}$	$\frac{33}{64}$	$\frac{5}{8}$	12.	13 5
$1\frac{1}{16}$	$\frac{3}{4}$ or $\frac{7}{8}$	$\frac{33}{64}$	$\frac{5}{8}$	11.5	13.
$1\frac{1}{8}$	$\frac{3}{8}$ or $\frac{7}{16}$	$\frac{17}{32}$	$\frac{5}{8}$	12.5	14.
$1\frac{1}{8}$	$\frac{1}{2}$ or $\frac{11}{16}$	$\frac{17}{32}$	$\frac{5}{8}$	11.5	13.
$1\frac{1}{8}$	$\frac{13}{16}$ or $\frac{7}{8}$	$\frac{17}{32}$	$\frac{5}{8}$	11.	12.5
$1\frac{3}{16}$	$\frac{5}{8}$ or $\frac{3}{4}$	$\frac{9}{16}$	$\frac{5}{8}$	11.	12.5
$1\frac{1}{4}$	$\frac{7}{16}$ or $\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	10.5	12.
$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{37}{64}$	$\frac{11}{16}$	11.	12.
$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	13.	14.5
$1\frac{3}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	13.	14.
$1\frac{3}{16}$	$\frac{11}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	12.5	13.5
$1\frac{3}{16}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	12.	13.
$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	13.	15.
$1\frac{1}{4}$	$\frac{7}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	12.	13.5
$1\frac{1}{4}$	$\frac{11}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	11.5	12.5
$1\frac{1}{4}$	$\frac{7}{8}$ or 1	$\frac{5}{8}$	$\frac{3}{4}$	10.5	11.5
$1\frac{5}{16}$	$\frac{13}{16}$ or $\frac{7}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	11.	12.
$1\frac{3}{8}$	$\frac{7}{16}$ or $\frac{1}{2}$	$\frac{21}{32}$	$\frac{3}{4}$	12.	13.
$1\frac{3}{8}$	$\frac{5}{8}$. $\frac{11}{16}$ or $\frac{13}{16}$	$\frac{21}{32}$	$\frac{3}{4}$	11.	12.
$1\frac{3}{8}$	1	$\frac{21}{32}$	$\frac{3}{4}$	10.5	11.5
$1\frac{1}{2}$	$\frac{5}{8}$	$\frac{21}{32}$	$\frac{3}{4}$	10.5	11.5

Special rates for quantity quoted on receipt of specifications.

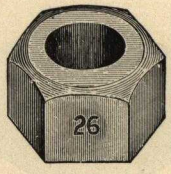
Cold Punched Hexagon Nuts.



Extra Sizes.

IN 200 POUND LOTS.

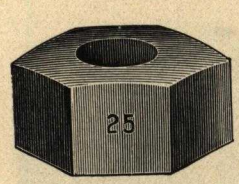
(Smaller Lots Extra.)



Wide.	Thick.	Hole.	Bolt.	Plain. Price per Pound.	Cupped. Price per Pound.
$1\frac{3}{8}$	$\frac{1}{2}$	$\frac{47}{64}$	$\frac{7}{8}$	14.	15.
$1\frac{3}{8}$	$\frac{5}{8}$ or $\frac{3}{4}$	$\frac{47}{64}$	$\frac{7}{8}$	12.5	13.5
$1\frac{3}{8}$	$\frac{13}{16}$	$\frac{47}{64}$	$\frac{7}{8}$	12.	13.
$1\frac{3}{8}$	$\frac{7}{8}$ or 1	$\frac{47}{64}$	$\frac{7}{8}$	11.5	12.5
$1\frac{7}{16}$	$\frac{7}{8}$ or $\frac{1}{2}$	$\frac{47}{64}$	$\frac{7}{8}$	13.	14.5
$1\frac{7}{16}$	$\frac{1}{2}$ or $\frac{9}{16}$	$\frac{47}{64}$	$\frac{7}{8}$	12.	13.
$1\frac{7}{16}$	$\frac{11}{16}$	$\frac{47}{64}$	$\frac{7}{8}$	11.	12.
$1\frac{7}{16}$	1 or $1\frac{1}{8}$	$\frac{47}{64}$	$\frac{7}{8}$	10.5	11.5
$1\frac{7}{16}$	$1\frac{1}{4}$	$\frac{47}{64}$	$\frac{7}{8}$	11.5	12.5
$1\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	12.	13.
$1\frac{1}{2}$	$\frac{5}{8}$ or $\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$	11.	12.
$1\frac{1}{2}$	$\frac{15}{16}$ or $1\frac{1}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	10.5	11 5
$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{8}$	12.	13.
$1\frac{9}{16}$	$\frac{15}{16}$ or 1	$\frac{3}{4}$	$\frac{7}{8}$	11.	12.
$1\frac{5}{8}$	$\frac{1}{2}$ or $\frac{5}{8}$	$\frac{25}{32}$	$\frac{7}{8}$	11.	12.
$1\frac{5}{8}$	$\frac{15}{16}$	$\frac{25}{32}$	$\frac{7}{8}$	10.	11.
$1\frac{3}{4}$	$\frac{3}{4}$	$\frac{25}{32}$	$\frac{7}{8}$	10.5	11.5
$1\frac{3}{8}$	$\frac{7}{8}$	$\frac{27}{32}$	1	16.	17.
$1\frac{7}{16}$	$\frac{7}{8}$	$\frac{27}{32}$	1	14	15.
$1\frac{1}{2}$	$\frac{5}{8}$	$\frac{27}{32}$	1	14.	15.
$1\frac{1}{2}$	$\frac{7}{8}$ or 1	$\frac{27}{32}$	1	12.5	13.5
$1\frac{9}{16}$	$\frac{5}{8}$	$\frac{27}{32}$	1	13.5	14.5
$1\frac{9}{16}$	$\frac{3}{4}$ or $\frac{7}{8}$	$\frac{27}{32}$	1	12.5	13.5
$1\frac{9}{16}$	$\frac{15}{16}$	$\frac{27}{32}$	1	11.5	12.5
$1\frac{9}{16}$	1	$\frac{27}{32}$	1	11.	12.
$1\frac{5}{8}$	$\frac{1}{2}$	$\frac{27}{32}$	1	13.	14.5
$1\frac{5}{8}$	$\frac{9}{16}$ or $\frac{5}{8}$	$\frac{27}{32}$	1	12.	13.
$1\frac{5}{8}$	$\frac{13}{16}$ or $\frac{7}{8}$	$\frac{27}{32}$	1	11.	12.
$1\frac{5}{8}$	$1\frac{1}{8}$ or $1\frac{1}{4}$	$\frac{27}{32}$	1	11.	12.
$1\frac{5}{8}$	$1\frac{3}{8}$	$\frac{27}{32}$	1	13.	14.
$1\frac{3}{4}$	$\frac{3}{4}$ or $\frac{7}{8}$	$\frac{7}{8}$	1	11.	12.
$1\frac{3}{4}$	$1\frac{1}{16}$ or $1\frac{3}{8}$	$\frac{7}{8}$	1	11.	12.
$1\frac{3}{4}$	$1\frac{1}{2}$	$\frac{7}{8}$	1	13.	14.
$1\frac{3}{4}$	$\frac{7}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	12.5	13.5
$1\frac{3}{4}$	1 or $1\frac{1}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	11.5	12.5
$1\frac{13}{16}$	$\frac{9}{16}$	$\frac{15}{16}$	$1\frac{1}{8}$	13.	14.5
$1\frac{13}{16}$	$\frac{5}{8}$ or $\frac{7}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	12.	13.
$1\frac{13}{16}$	1, $1\frac{3}{16}$ or $1\frac{1}{4}$	$\frac{15}{16}$	$1\frac{1}{8}$	11.	12.

Special rates for quantity quoted on receipt of specifications.

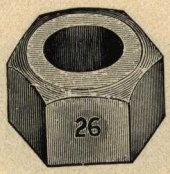
Cold Punched Hexagon Nuts.



Extra Sizes.

IN 200 POUND LOTS.

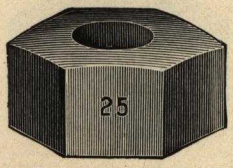
(Smaller Lots Extra.)



Wide.	Thick.	Hole.	Bolt.	Plain. Price per Pound.	Cupped. Price per Pound.
$1\frac{13}{16}$	$1\frac{3}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	12.	13.
$1\frac{7}{8}$	1, $1\frac{1}{8}$ or $1\frac{1}{4}$	$\frac{15}{16}$	$1\frac{1}{8}$	10.5	11.5
$1\frac{15}{16}$	$1\frac{1}{4}$	$\frac{15}{16}$	$1\frac{1}{8}$	11.	12.
2	$\frac{3}{4}$ or $\frac{7}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	11.	12.
2	1	$\frac{15}{16}$	$1\frac{1}{8}$	10.5	11.5
2	$1\frac{1}{8}$ or $1\frac{3}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	10.	11.
$1\frac{15}{16}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	12.5	13.5
2	$\frac{1}{2}$ or $\frac{9}{16}$	$1\frac{1}{16}$	$1\frac{1}{4}$	14.5	16.
2	$\frac{5}{8}$	$1\frac{1}{16}$	$1\frac{1}{4}$	13.5	14.5
2	$\frac{13}{16}$	$1\frac{1}{16}$	$1\frac{1}{4}$	12.	13.
2	$\frac{7}{8}$ or $\frac{15}{16}$	$1\frac{1}{16}$	$1\frac{1}{4}$	11.5	12.5
2	1, $1\frac{1}{8}$ or $1\frac{5}{16}$	$1\frac{1}{16}$	$1\frac{1}{4}$	11.5	12.5
2	$1\frac{1}{2}$	$1\frac{1}{16}$	$1\frac{1}{4}$	12.	13.
$2\frac{1}{16}$	$1\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{1}{4}$	12.	13.
$2\frac{1}{8}$	$\frac{3}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	12.5	13.5
$2\frac{1}{8}$	$1\frac{1}{4}$ or $1\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{1}{4}$	11.5	12.5
$2\frac{1}{4}$	$\frac{3}{4}$ or 1	$1\frac{1}{16}$	$1\frac{1}{4}$	11.5	12.5
$2\frac{1}{4}$	$1\frac{1}{8}$ or $1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	10.5	11.5
$2\frac{3}{16}$	$\frac{11}{16}$ or $\frac{3}{4}$	$1\frac{5}{32}$	$1\frac{3}{8}$	13.5	14.5
$2\frac{3}{16}$	$\frac{13}{16}$	$1\frac{5}{32}$	$1\frac{3}{8}$	13.	14.
$2\frac{3}{16}$	1	$1\frac{5}{32}$	$1\frac{3}{8}$	12.5	13.5
$2\frac{1}{4}$	$\frac{3}{4}$ or 1	$1\frac{5}{32}$	$1\frac{3}{8}$	12.5	13.5
$2\frac{1}{4}$	$1\frac{1}{4}$ or $1\frac{3}{8}$	$1\frac{3}{16}$	$1\frac{3}{8}$	11.5	12.5
$2\frac{1}{4}$	$1\frac{3}{8}$ or $1\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{3}{8}$	11.	12.
$2\frac{5}{16}$	$1\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{3}{8}$	11.5	12.5
$2\frac{1}{2}$	1 or $1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{3}{8}$	11.	12.
$2\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{3}{16}$	$1\frac{3}{8}$	10.5	11.5
$2\frac{5}{16}$	$1\frac{1}{2}$	$1\frac{9}{32}$	$1\frac{1}{2}$	12.5	13.5
$2\frac{3}{8}$	$\frac{9}{16}$	$1\frac{9}{32}$	$1\frac{1}{2}$	15.5	17.
$2\frac{3}{8}$	$\frac{3}{4}$	$1\frac{9}{32}$	$1\frac{1}{2}$	14.	15.
$2\frac{3}{8}$	1, $1\frac{1}{8}$ or $1\frac{1}{4}$	$1\frac{9}{32}$	$1\frac{1}{2}$	12.5	14
$2\frac{3}{8}$	$1\frac{3}{8}$ or $1\frac{9}{16}$	$1\frac{9}{32}$	$1\frac{1}{2}$	12.	13.
$2\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{9}{32}$	$1\frac{1}{2}$	13.	14.
$2\frac{1}{2}$	$\frac{3}{4}$ or 1	$1\frac{5}{16}$	$1\frac{1}{2}$	13.	14.
$2\frac{1}{2}$	$1\frac{1}{4}$ or $1\frac{1}{2}$	$1\frac{5}{16}$	$1\frac{1}{2}$	11.5	12.5
$2\frac{1}{2}$	$1\frac{5}{8}$, $1\frac{3}{4}$ or 2	$1\frac{5}{16}$	$1\frac{1}{2}$	12.	13.

Special rates for quantity quoted on receipt of specifications.

Cold Punched Hexagon Nuts.



Extra Sizes.

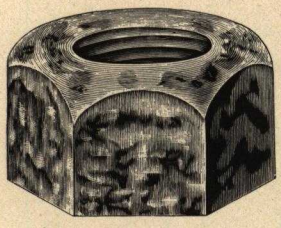
IN 200 POUND LOTS.

(Smaller Lots Extra.)

Wide.	Thick.	Hole.	Bolt.	Plain. Price per Pound.	Cupped. Price per Pound.
$2\frac{3}{4}$	$\frac{7}{8}$	$1\frac{5}{16}$	$1\frac{1}{2}$	**12.5**	**13.5**
$2\frac{3}{4}$	$1\frac{3}{8}$ or $1\frac{1}{2}$	$1\frac{5}{16}$	$1\frac{1}{2}$	**11.**	**12.**
$2\frac{3}{4}$	2	$1\frac{5}{16}$	$1\frac{1}{2}$	**12.**	**13.**
$2\frac{13}{16}$	$\frac{3}{4}$ or 1	$1\frac{5}{16}$	$1\frac{1}{2}$	**13.**	**14.**
$2\frac{13}{16}$	$1\frac{5}{8}$	$1\frac{5}{16}$	$1\frac{1}{2}$	**12.**	**13.**
$2\frac{1}{2}$	$1\frac{1}{2}$ or $1\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{5}{8}$	**13.**	**14.**
$2\frac{9}{16}$	$\frac{13}{16}$	$1\frac{3}{8}$	$1\frac{5}{8}$	**15.**	**16.**
$2\frac{9}{16}$	$\frac{15}{16}$	$1\frac{3}{8}$	$1\frac{5}{8}$	**14.**	**15.**
$2\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{7}{16}$	$1\frac{5}{8}$	**12.**	**13.**
$2\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{3}{4}$	**16.**	**17.**
$2\frac{11}{16}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	**14.**	**15.**
$2\frac{3}{4}$	$\frac{7}{8}$, 1 or $1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	**15.**	**16.**
$2\frac{3}{4}$	$1\frac{1}{4}$, $1\frac{3}{8}$ or $1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	**13.5**	**14.5**
$2\frac{3}{4}$	2	$1\frac{1}{2}$	$1\frac{3}{4}$	**13.**	**14.**
$2\frac{13}{16}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	**13.**	**14.**
$2\frac{15}{16}$	$1\frac{7}{8}$	$1\frac{9}{16}$	$1\frac{3}{4}$	**13.**	**14.**
3	$1\frac{7}{8}$	$1\frac{9}{16}$	$1\frac{3}{4}$	**12.5**	**13.5**
$3\frac{1}{4}$	$1\frac{3}{4}$ or 2	$1\frac{9}{16}$	$1\frac{3}{4}$	**12.**	**13.**
$2\frac{3}{4}$	2	$1\frac{5}{8}$	$1\frac{7}{8}$	**14.**	**15.**
$2\frac{15}{16}$	$\frac{15}{16}$, 1 or $1\frac{1}{16}$	$1\frac{5}{8}$	$1\frac{7}{8}$	**15.**	**16.**
$2\frac{15}{16}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{7}{8}$	**13.5**	**14.5**
$3\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{11}{16}$	$1\frac{7}{8}$	**13.**	**14.**
3	$\frac{3}{4}$	$1\frac{23}{32}$	2	**18.**	**19.**
3	$1\frac{3}{4}$	$1\frac{23}{32}$	2	**15.**	**16.**
$3\frac{1}{8}$	$\frac{3}{4}$ or $\frac{7}{8}$	$1\frac{23}{32}$	2	**16.5**	**17.5**
$3\frac{1}{8}$	1, $1\frac{1}{8}$ or $1\frac{1}{4}$	$1\frac{23}{32}$	2	**15.**	**16.**
$3\frac{1}{8}$	$1\frac{1}{2}$ or $1\frac{3}{4}$	$1\frac{23}{32}$	2	**13.5**	**14.5**
$3\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{13}{16}$	2	**13.**	**14.**
$3\frac{1}{2}$	$\frac{3}{4}$	$1\frac{13}{16}$	2	**15.**	**16.**
$3\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{13}{16}$	2	**13.**	**14.**
$3\frac{1}{8}$	2	$1\frac{13}{16}$	$2\frac{1}{8}$	**15.**	**16.**
$3\frac{1}{2}$	$1\frac{1}{8}$	$1\frac{15}{16}$	$2\frac{1}{4}$	**16.**	**17.**
$3\frac{1}{2}$	$1\frac{5}{8}$ or $1\frac{3}{4}$	$1\frac{15}{16}$	$2\frac{1}{4}$	**15.**	**16.**
$3\frac{7}{8}$	1	$2\frac{3}{16}$	$2\frac{1}{2}$	**17.**	**18.**
$3\frac{7}{8}$	$1\frac{1}{4}$ or 1^{1}	$2\frac{3}{16}$	$2\frac{1}{2}$	**16.**	**17.**

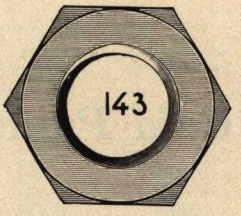
Special rates for quantity quoted on receipt of specifications.

Hexagon Nuts.



Finished Case-hardened and Semi-Finished.

MANUFACTURERS' STANDARD LIST.



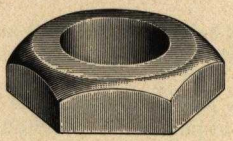
The thread and outside of each Finished Nut are made to an accurate gauge, and to the standard adopted by the U. S. Government. First-class in all respects.

The Semi-Finished Nuts correspond with the Finished Nuts in all dimensions; they are our rough cold-punched U. S. Standard Nuts, tapped and faced true on the bottom.

For Bolt.	Width.	Thickness.	Number of Threads.	Finished Case-Hardened Nuts. Price Each.	Semi-Finished Nuts. Price Each.	Semi-Finished with Double Chamfer. Price Each.
$\frac{1}{4}$ inch.	$\frac{1}{2}$	$\frac{1}{4}$	20	.06	.02	.02½
$\frac{5}{16}$ "	$\frac{19}{32}$	$\frac{5}{16}$	18	.07	.02½	.03
$\frac{3}{8}$ "	$\frac{11}{16}$	$\frac{3}{8}$	16	.08	.03¼	.04
$\frac{7}{16}$ "	$\frac{25}{32}$	$\frac{7}{16}$	14	.09	.03¾	.04½
$\frac{1}{2}$ "	$\frac{7}{8}$	$\frac{1}{2}$	12 or 13	.10	.04	.04¾
$\frac{9}{16}$ "	$\frac{31}{32}$	$\frac{9}{16}$	12	.12	.05	.06
$\frac{5}{8}$ "	$1\frac{1}{16}$	$\frac{5}{8}$	11	.15	.05½	.06½
$\frac{11}{16}$ "	$1\frac{5}{32}$	$\frac{11}{16}$	11	.17	.06½	.07¾
$\frac{3}{4}$ "	$1\frac{1}{4}$	$\frac{3}{4}$	10	.18	.07½	.08¾
$\frac{7}{8}$ "	$1\frac{7}{16}$	$\frac{7}{8}$	9	.22	.10	.11½
1 "	$1\frac{5}{8}$	1	8	.30	.13½	.15½
$1\frac{1}{8}$ "	$1\frac{13}{16}$	$1\frac{1}{8}$	7	.35	.17	.19½
$1\frac{1}{4}$ "	2	$1\frac{1}{4}$	7	.45	.24	.27
$1\frac{3}{8}$ "	$2\frac{3}{16}$	$1\frac{3}{8}$	6	.55	.34	.38
$1\frac{1}{2}$ "	$2\frac{3}{8}$	$1\frac{1}{2}$	6	.65	.44	.48
$1\frac{5}{8}$ "	$2\frac{9}{16}$	$1\frac{5}{8}$	5½	.80	.54	.60
$1\frac{3}{4}$ "	$2\frac{3}{4}$	$1\frac{3}{4}$	5	1.00	.70	.78
$1\frac{7}{8}$ "	$2\frac{15}{16}$	$1\frac{7}{8}$	5	1.50	.90	1.00
2 "	$3\frac{1}{8}$	2	4½	2.00	1.10	1.25
$2\frac{1}{4}$ "	$3\frac{1}{2}$	$2\frac{1}{4}$	4½	3.50	1.50	1.80
$2\frac{1}{2}$ "	$3\frac{7}{8}$	$2\frac{1}{2}$	4	5.00	2.00	2.50
$2\frac{3}{4}$ "	$4\frac{1}{4}$	$2\frac{3}{4}$	4	7.00	3.00	3.75

For Finished Nuts with Double Chamfer, add 10 per cent.
Finished Nuts, not Case-Hardened, same list as Case-Hardened.
Polished, after Case-Hardening, 10 per cent. less discount.
Case-Hardened Semi-Finished Nuts, 20 per cent. additional.

List for
Cold Punched Check and Jam Nuts.



Wide.	Thick.	Hole.	Bolt.	Price Per Pound.
$\frac{1}{2}$	$\frac{3}{16}$	$\frac{13}{64}$	$\frac{1}{4}$	**33.**
$\frac{19}{32}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{5}{16}$	**28.**
$\frac{11}{16}$	$\frac{1}{4}$	$\frac{19}{64}$	$\frac{3}{8}$	**24.**
$\frac{25}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{7}{16}$	**20.**
$\frac{7}{8}$	$\frac{5}{16}$	$\frac{13}{32}$	$\frac{1}{2}$	**16.5**
$1\frac{1}{16}$	$\frac{3}{8}$	$\frac{33}{64}$	$\frac{5}{8}$	**15.**
$1\frac{1}{4}$	$\frac{7}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	**13.5**
$1\frac{7}{16}$	$\frac{1}{2}$	$\frac{47}{64}$	$\frac{7}{8}$	**13.**
$1\frac{5}{8}$	$\frac{9}{16}$	$\frac{27}{32}$	1	**13.**
$1\frac{13}{16}$	$\frac{5}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	**13.**
2	$\frac{3}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	**13.5**
$2\frac{3}{16}$	$\frac{13}{16}$	$1\frac{5}{32}$	$1\frac{3}{8}$	**14.**
$2\frac{3}{8}$	$\frac{7}{8}$	$1\frac{9}{32}$	$1\frac{1}{2}$	**14.5**
$2\frac{9}{16}$	$\frac{15}{16}$	$1\frac{25}{64}$	$1\frac{5}{8}$	**15.**
$2\frac{3}{4}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	**16.**
$2\frac{15}{16}$	$1\frac{1}{16}$	$1\frac{5}{8}$	$1\frac{7}{8}$	**17.**
$3\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{23}{32}$	2	**18.**

Any other thickness furnished.

Cold Punched Joint Nuts.

Long.	Wide.	Thick.	Hole.	Bolt.	Price Per Pound.	Number in 100 Pounds.
$\frac{5}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{13}{64}$	$\frac{1}{4}$	**13.4**	3900
$\frac{3}{4}$	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	**12.**	2660
$\frac{15}{16}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{19}{64}$	$\frac{3}{8}$	**10.5**	1540
$1\frac{1}{16}$	$\frac{7}{8}$	$\frac{7}{16}$	$\frac{11}{32}$	$\frac{7}{16}$	**9.2**	976
$1\frac{1}{4}$	1	$\frac{1}{2}$	$\frac{25}{64}$	$\frac{1}{2}$	**8.8**	665
$1\frac{3}{8}$	$1\frac{1}{8}$	$\frac{9}{16}$	$\frac{29}{64}$	$\frac{9}{16}$	**8.6**	485
$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{33}{64}$	$\frac{5}{8}$	**8.4**	320
$1\frac{3}{4}$	$1\frac{3}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	**8.4**	234
$2\frac{1}{4}$	$1\frac{3}{4}$	$\frac{7}{8}$	$\frac{47}{64}$	$\frac{7}{8}$	**8.2**	113
$2\frac{1}{2}$	2	1	$\frac{27}{32}$	1	**8.2**	80
$2\frac{3}{4}$	$2\frac{1}{4}$	$1\frac{1}{8}$	$\frac{15}{16}$	$1\frac{1}{8}$	**8.2**	56
3	$2\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{4}$	**8.4**	42
$3\frac{1}{4}$	$2\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{5}{32}$	$1\frac{3}{8}$	**8.6**	33
$3\frac{1}{2}$	3	$1\frac{1}{2}$	$1\frac{9}{32}$	$1\frac{1}{2}$	**9.**	$25\frac{1}{2}$

Round Nuts or Collars.

We can make promptly almost any size, and will quote special prices on application.

Double Cupped Nuts

Made to order, and prices quoted on application.

Tapped Square and Hexagon Nuts.

USED BY WM. H. HASKELL COMPANY.

On Bolts.

Diameter.	Thi'kness.	Size of Bolt.	Square Per Pound.	No. Square in 100 Pounds.	Hexagon Per Pound.	No. Hexagon in 100 Pounds.
$\frac{7}{16}$	$\frac{3}{16}$	$\frac{1}{4}$	**34.**	12200	**47.5**	15000
$\frac{19}{32}$	$\frac{5}{16}$	$\frac{5}{16}$	**22.5**	4500	**31.**	5500
$\frac{11}{16}$	$\frac{5}{16}$	$\frac{3}{8}$, 3″ shorter than	**20.**	3300	**28.**	3800
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{3}{8}$, 3″ and longer.	**18.2**	2720	**24.5**	3300
$\frac{3}{4}$	$\frac{3}{8}$	$\frac{7}{16}$	**17.5**	2300	**23.**	2700
$\frac{7}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	**15.**	1500	**20.**	1800
$\frac{31}{32}$	$\frac{9}{16}$	$\frac{9}{16}$	**13.4**	980	**16.8**	1150
$1\frac{1}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	**11.6**	700	**14.8**	850
$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	**10.7**	400	**12.9**	520
$1\frac{7}{16}$	$\frac{7}{8}$	$\frac{7}{8}$	**10.6**	270	**12.7**	340
$1\frac{5}{8}$	1	1	**10.6**	180	**12.7**	230

On Bolt Ends.

Diameter.	Thickness.	Size of Iron.
1	$\frac{1}{2}$	$\frac{1}{2}$
$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{5}{8}$
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
$1\frac{3}{4}$	$\frac{7}{8}$	$\frac{7}{8}$
2	1	1
$2\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{1}{8}$
$2\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{4}$
$2\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{3}{8}$
3	$1\frac{1}{2}$	$1\frac{1}{2}$

On Hanger Screws.

Diameter.	Thickness.	Size of Screw.
$\frac{7}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{5}{8}$
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
$1\frac{7}{16}$	$\frac{7}{8}$	$\frac{7}{8}$
$1\frac{5}{8}$	1	1
$1\frac{13}{16}$	$1\frac{1}{8}$	$1\frac{1}{8}$
2	$1\frac{1}{4}$	$1\frac{1}{4}$
$2\frac{3}{16}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$2\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{1}{2}$

Extra Cost of Tapped Nuts.

UNITED STATES STANDARD THREADS.

IN 100 POUND LOTS.

Size of Bolt.	Threads to Inch.	Square Nuts.	Hexagon Nuts.	United States Standard Square Nuts. Cupped.		United States Standard Hexagon Nuts. Cupped.	
		Price per Pound. Net.	Price per Pound. Net.	Price per Pound.	Number in 100 Pounds.	Price per Pound.	Number in 100 Pounds.
$\frac{1}{4}$	20	**6.**	**9.**	**26.**	7500	**36.**	9000
$\frac{5}{16}$	18	**4.5**	**7.**	**22.5**	4500	**31.**	5500
$\frac{3}{8}$	16	**3.7**	**6.**	**18.2**	2720	**24.5**	3200
$\frac{7}{16}$	14	**3.**	**4.5**	**17.**	1900	**22.5**	2170
$\frac{1}{2}$	13 or 12	**2.5**	**3.5**	**13.8**	1250	**17.5**	1500
$\frac{9}{16}$	12	**2.1**	**2.8**	**13.4**	980	**16.8**	1150
$\frac{5}{8}$	11	**1.6**	**2.3**	**11.6**	700	**14.8**	850
$\frac{3}{4}$	10	**1.3**	**2.**	**10.7**	400	**12.9**	520
$\frac{7}{8}$	9	**1.2**	**1.8**	**10.6**	270	**12.7**	340
1	8	**1.2**	**1.8**	**10.6**	180	**12.7**	230
$1\frac{1}{8}$	7	**1.2**	**1.8**	**10.6**	137	**12.7**	165
$1\frac{1}{4}$	7	**1.5**	**2.2**	**11.6**	101	**13.7**	122
$1\frac{3}{8}$	6	**1.5**	**2.2**	**11.8**	74	**14.2**	94
$1\frac{1}{2}$	6	**1.5**	**2.2**	**12.2**	63	**14.8**	75
$1\frac{5}{8}$	$5\frac{1}{2}$	**2.2**	**2.7**	**13.3**	49	**15.9**	58
$1\frac{3}{4}$	5	**2.2**	**2.7**	**13.7**	37	**16.7**	44
$1\frac{7}{8}$	5	**2.5**	**3.2**	**14.5**	31	**17.7**	38
2	$4\frac{1}{2}$	**2.5**	**3.2**	**14.5**	26	**17.7**	31
$2\frac{1}{8}$	$4\frac{1}{2}$	**3.**	**4.**	**15.5**	21	**19.**	26
$2\frac{1}{4}$	$4\frac{1}{2}$	**3.**	**4.**	**15.5**	$18\frac{1}{2}$	**19.**	22
$2\frac{1}{2}$	4	**3.5**	**4.5**	**16.5**	$12\frac{1}{2}$	**20.5**	$15\frac{3}{4}$
$2\frac{3}{4}$	4	**3.5**	**4.5**	**17.5**	$9\frac{1}{2}$	**21.**	$11\frac{3}{4}$
3	$3\frac{1}{2}$	**3.5**	**4.5**	**18.**	$7\frac{3}{4}$	**21.5**	9
$3\frac{1}{4}$	$3\frac{1}{2}$	**4.**	**5.**	**18.5**	$6\frac{1}{4}$	**22.**	$7\frac{1}{2}$
$3\frac{1}{2}$	$3\frac{1}{4}$	**4.**	**5.**	**18.5**	$5\frac{1}{4}$	**22.**	$6\frac{1}{4}$
$3\frac{3}{4}$	3	**4.**	**5.**	**19.5**	$4\frac{3}{8}$	**23.**	$5\frac{1}{6}$
4	3	**4.**	**5.**	**19.5**	$3\frac{1}{2}$	**23.**	$4\frac{1}{4}$

Punched Washers.

Standard List.

IN KEG LOTS.

Diameter.	Size of Hole.	Thickness, Wire Gauge.	Size of Bolt.	Price per Pound.	Number in 100 Pounds.
$\frac{9}{16}$	$\frac{1}{4}$	No. 18	$\frac{3}{16}$	**17.**	39400
$\frac{3}{4}$	$\frac{5}{16}$	No. 16	$\frac{1}{4}$	**12.5**	13900
$\frac{7}{8}$	$\frac{3}{8}$	No. 16	$\frac{5}{16}$	**11.5**	11250
1	$\frac{7}{16}$	No. 14	$\frac{3}{8}$	**10.5**	6800
$1\frac{1}{4}$	$\frac{1}{2}$	No. 14	$\frac{7}{16}$	**9.5**	4300
$1\frac{3}{8}$	$\frac{9}{16}$	No. 12	$\frac{1}{2}$	**9.**	2600
$1\frac{1}{2}$	$\frac{5}{8}$	No. 12	$\frac{9}{16}$	**9.**	2250
$1\frac{3}{4}$	$\frac{11}{16}$	No. 10	$\frac{5}{8}$	**8.5**	1300
2	$1\frac{3}{16}$	No. 10	$\frac{3}{4}$	**8.5**	1010
$2\frac{1}{4}$	$1\frac{5}{16}$	No. 9	$\frac{7}{8}$	**8.5**	860
$2\frac{1}{2}$	$1\frac{1}{16}$	No. 9	1	**8.5**	625
$2\frac{3}{4}$	$1\frac{1}{4}$	No. 9	$1\frac{1}{8}$	**8.5**	520
3	$1\frac{3}{8}$	No. 9	$1\frac{1}{4}$	**8.5**	400
$3\frac{1}{4}$	$1\frac{1}{2}$	No. 8	$1\frac{3}{8}$	**9.**	300
$3\frac{1}{2}$	$1\frac{5}{8}$	No. 8	$1\frac{1}{2}$	**9.**	260
$3\frac{3}{4}$	$1\frac{3}{4}$	No. 8	$1\frac{5}{8}$	**9.**	230
4	$1\frac{7}{8}$	No. 8	$1\frac{3}{4}$	**9.**	215
$4\frac{1}{4}$	2	No. 8	$1\frac{7}{8}$	**9.**	190
$4\frac{1}{2}$	$2\frac{1}{8}$	No. 8	2	**9.**	175
$4\frac{3}{4}$	$2\frac{3}{8}$	No. 6	$2\frac{1}{4}$	**9.5**	110
5	$2\frac{5}{8}$	No. 6	$2\frac{1}{2}$	**9.5**	91

Punched Washers.

Extra Sizes.

IN 200 POUND LOTS.

(Smaller Lots Extra.)

Diameter.	Size of Hole.	Thickness, Wire Gauge.	Size of Bolt.	Price per Pound.	Number in 100 Pounds.
$\frac{7}{16}$	$\frac{3}{16}$	No. 18	$\frac{1}{8}$	**27.**	
$\frac{1}{2}$	$\frac{1}{4}$	No. 18	$\frac{3}{16}$	**19.5**	45000
$\frac{9}{16}$	$\frac{5}{16}$	No. 16	$\frac{1}{4}$	**19**	
$\frac{5}{8}$	$\frac{5}{16}$	No. 16	$\frac{1}{4}$	**15.5**	21500
$\frac{3}{4}$	$\frac{3}{8}$	No. 16	$\frac{5}{16}$	**14.**	16500
$\frac{3}{4}$	$\frac{7}{16}$	No. 16	$\frac{3}{8}$	**16.**	
$\frac{7}{8}$	$\frac{7}{16}$	No. 14	$\frac{3}{8}$	**12.5**	11500
$\frac{7}{8}$	$\frac{1}{2}$	No. 14	$\frac{7}{16}$	**15.**	
1	$\frac{1}{2}$	No. 14	$\frac{7}{16}$	**11.5**	7400
$1\frac{1}{8}$	$\frac{1}{2}$	No. 14	$\frac{7}{16}$	**10.5**	5450
1	$\frac{9}{16}$	No. 14	$\frac{1}{2}$	**14.**	
$1\frac{1}{16}$	$\frac{9}{16}$	No. 12	$\frac{1}{2}$	**14.**	
$1\frac{1}{8}$	$\frac{9}{16}$	No. 12	$\frac{1}{2}$	**12.**	4800
$1\frac{1}{4}$	$\frac{9}{16}$	No. 12	$\frac{1}{2}$	**10.5**	3650
$1\frac{1}{2}$	$\frac{9}{16}$	No. 12	$\frac{1}{2}$	**9.**	2000
$1\frac{1}{4}$	$\frac{5}{8}$	No. 12	$\frac{9}{16}$	**11.**	3900
$1\frac{3}{8}$	$\frac{5}{8}$	No. 12	$\frac{9}{16}$	**10.**	3000
$1\frac{1}{8}$	$\frac{11}{16}$	No. 12	$\frac{5}{8}$	**14.**	
$1\frac{1}{4}$	$\frac{11}{16}$	No. 12	$\frac{5}{8}$	**11.5**	4100
$1\frac{3}{8}$	$\frac{11}{16}$	No. 12	$\frac{5}{8}$	**10.5**	3200
$1\frac{1}{2}$	$\frac{11}{16}$	No. 10	$\frac{5}{8}$	**9.5**	2150

Punched Washers.

Extra Sizes.

IN 200 POUND LOTS.

(Smaller Lots Extra.)

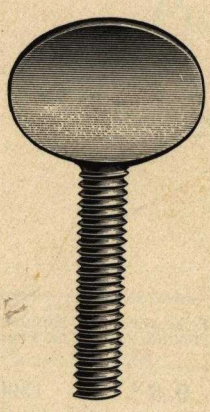
Diameter.	Size of Hole.	Thickness, Wire Gauge.	Size of Bolt.	Price per Pound.	Number in 100 Pounds.
1 5/8	11/16	No. 10	5/8	10.	
1 3/8	13/16	No. 10	3/4	13.	
1 1/2	13/16	No. 10	3/4	10.	2200
1 5/8	13/16	No. 10	3/4	10.	
1 3/4	13/16	No. 10	3/4	9.3	1400
1 3/4	15/16	No. 10	7/8	11.	
1 7/8	15/16	No. 10	7/8	10.	
2	15/16	No. 9	7/8	9.3	1150
1 3/4	1 1/16	No. 10	1	13.	
2	1 1/16	No. 9	1	11.	
2 1/4	1 1/16	No. 9	1	9.3	940
2	1 1/4	No. 9	1 1/8	12.	
2 1/4	1 1/4	No. 9	1 1/8	11.	
2 1/2	1 1/4	No. 9	1 1/8	10.	
2 1/2	1 3/8	No. 9	1 1/4	11.	
2 3/4	1 3/8	No. 9	1 1/4	10.	
3 or 3 1/4	1 1/2	No. 9	1 3/8	10.	
3	1 5/8	No. 8	1 1/2	11.	
3 1/4 or 3 1/2	1 5/8	No. 8	1 1/2	10.	
3 1/2	1 7/8	No. 8	1 3/4	11.	
3 3/4	1 7/8	No. 8	1 3/4	10.	
4	2 1/8	No. 8	2	11.	

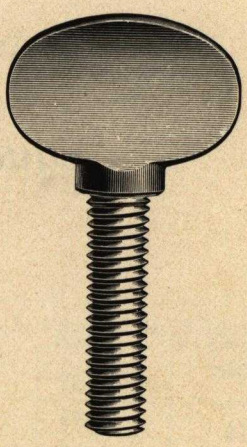
Square Washers.

Standard Sizes.

Wide.	Hole.	Thick.	Bolt.	Price per Pound.	Number in 100 Pounds.
$1\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{8}$	$\frac{3}{8}$	**9.6**	1300
$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{7}{16}$	**9.1**	1100
2	$\frac{9}{16}$	$\frac{3}{16}$	$\frac{1}{2}$	**8.5**	500
$2\frac{1}{4}$	$\frac{23}{32}$	$\frac{1}{4}$	$\frac{5}{8}$	**8.3**	315
$2\frac{1}{2}$	$\frac{27}{32}$	$\frac{1}{4}$	$\frac{3}{4}$	**8.3**	250
3	$\frac{31}{32}$	$\frac{1}{4}$	$\frac{7}{8}$	**8.2**	165
$3\frac{1}{2}$	$1\frac{3}{32}$	$\frac{3}{8}$	1	**8.2**	87
4	$1\frac{1}{4}$	$\frac{3}{8}$	$1\frac{1}{8}$	**8.2**	65
$4\frac{1}{2}$	$1\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{4}$	**8.2**	48
5	$1\frac{1}{2}$	$\frac{3}{8}$	$1\frac{3}{8}$	**8.2**	40
6	$1\frac{5}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	**8.3**	28
$6\frac{1}{2}$	$1\frac{7}{8}$	$\frac{3}{8}$	$1\frac{3}{4}$	**8.4**	24
7	$2\frac{1}{8}$	$\frac{3}{8}$	2	**8.4**	21

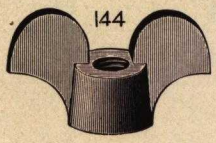
A large assortment of Cast Iron Washers, all sizes, carried in stock.

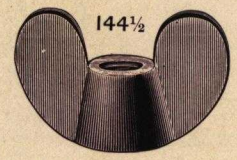


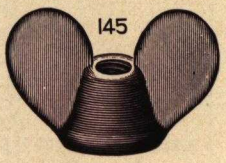


Drop Forged Thumb Screws.

Tapped Thumb Nuts.







In ordering, state whether Malleable, Drop Forged, or Brass. Also style of finish required.

Drop Forged Steel Thumb Screws.

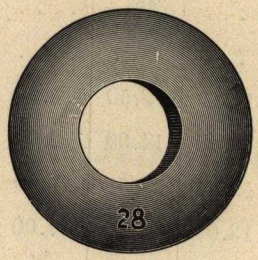
Black Heads.

Inches under Head.	No. 0.	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	No. 6.	No. 7.	No. 8.
	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8
1/4	$2.80	$4.00	$5.00	$5.50	$6.00	$8.00	....	....	....
1/2	3.00	4.20	5.20	5.80	6.50	8.50	....	....	....
3/4	3.20	4.40	5.40	6.10	7.00	9.00	....	....	....
1	3.40	4.60	5.60	6.40	7.50	9.50	$11.50	$13.50	$15.50
1 1/4	3.60	4.80	5.80	6.70	8.00	10.00	12.00	14.00	16.00
1 1/2	3.80	5.00	6.00	7.00	8.50	10.50	12.50	14.50	16.50
1 3/4	4.00	5.20	6.20	7.30	9.00	11.00	13.00	15.00	17.00
2	...	5.40	6.40	7.60	9.50	11.50	13.50	15.50	17.50
2 1/4	...	...	6.60	7.80	10.00	12.00	14.00	16.00	18.00
2 1/2	...	...	6.80	8.20	10.50	12.50	14.50	16.50	18.50
2 3/4	...	...	...	8.40	11.00	13.00	15.00	17.00	19.00
3	...	...	...	8.80	11.50	13.50	15.50	17.50	19.50
3 1/4	...	...	...	...	12.00	14.00	16.00	18.00	20.00
3 1/2	...	...	...	...	12.50	14.50	16.50	18.50	20.50
3 3/4	...	...	...	...	13.00	15.00	17.00	19.00	21.00
4	...	...	...	...	13.50	15.50	17.50	19.50	21.50
4 1/4	...	...	...	...	14.00	16.00	18.00	20.00	22.00
4 1/2	...	...	...	...	14.50	16.50	18.50	20.50	22.50
4 3/4	...	...	...	...	15.00	17.00	19.00	21.00	23.00
5	...	...	...	...	15.50	17.50	19.50	21.50	23.50

In ordering, please state pattern wanted, if Plain or Shoulder Thumb Screw.

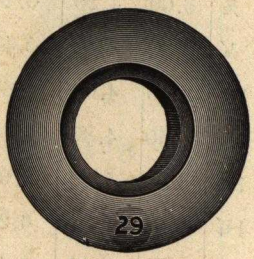
Clinch Rings.

No. 1.



STRAIGHT HOLE.

No. 2.



COUNTERSUNK HOLE.

Straight or Countersunk Hole.

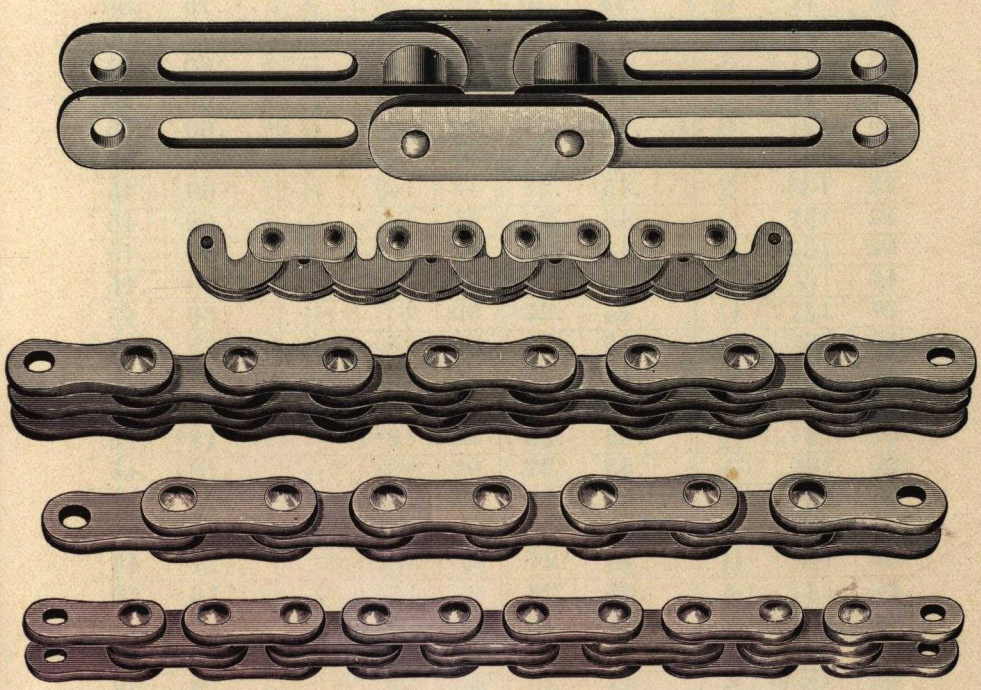
Sizes from $\frac{3}{8}$ to $1\frac{1}{2}$ inch hole.

Prices on application.

Punched

Flat Link Chains and Chain Links,

Of All Sizes and Shapes Required.



For Chain made of links 2×2, 2×3, or of more links in number, add one-third, two-thirds, or relative proportion, to the list prices per foot.

We manufacture Chains of many different styles, and will quote prices on application.

Chain Links and Chain.

No.	Length.	Center to Center.	Price per 100.	Price per foot.	No.	Length.	Center to Center.	Price per 100.	Price per foot.
1	$\frac{17}{32}$	$\frac{5}{16}$	.75	.75	36	$\frac{25}{32}$	$\frac{7}{16}$	.75	.50
2	$\frac{3}{4}$	$\frac{13}{32}$	.75	.50	37	$\frac{5}{8}$	$\frac{13}{32}$	.75	.50
3	$\frac{13}{16}$	$\frac{7}{16}$	.75	.50	38	1	$\frac{21}{32}$	.60	.33
4	$\frac{13}{16}$	$\frac{15}{32}$	.75	.50	39	$1\frac{9}{32}$	$\frac{11}{16}$	.45	.27
5	$\frac{27}{32}$	$\frac{1}{2}$	.75	.50	40	$2\frac{1}{4}$	$1\frac{1}{2}$	.75	.40
6	$\frac{15}{16}$	$\frac{17}{32}$	.25	.20	41	$\frac{23}{32}$	$\frac{7}{16}$	.75	.50
7	$\frac{31}{32}$	$\frac{21}{32}$	.60	.33	42	$\frac{27}{32}$	$\frac{15}{32}$	.75	.50
8	$\frac{31}{32}$	$\frac{9}{16}$	.30	.20	43	1	$\frac{11}{16}$	.60	.45
9	$1\frac{3}{32}$	$\frac{21}{32}$	.40	.27	44	$1\frac{1}{32}$	$\frac{23}{32}$	.60	.45
10	$1\frac{7}{32}$	$\frac{21}{32}$	.40	.27	45	$1\frac{5}{32}$	$\frac{11}{16}$	.60	.45
11	$1\frac{3}{8}$	$\frac{27}{32}$	.45	.27	46	$1\frac{1}{8}$	$\frac{21}{32}$	.60	.45
12	$1\frac{3}{8}$	$\frac{27}{32}$	.45	.27	47	$1\frac{11}{32}$	$\frac{13}{16}$	.60	.45
13	$1\frac{13}{32}$	$\frac{29}{32}$	.45	.27	48	$1\frac{7}{16}$	$\frac{7}{8}$	.60	.45
14	$1\frac{7}{16}$	$\frac{29}{32}$	.45	.27	49	$\frac{15}{16}$	$\frac{9}{16}$	.60	.45
15	$1\frac{7}{16}$	$1\frac{1}{32}$	.45	.27	50	$1\frac{3}{4}$	$1\frac{3}{32}$	.60	.45
16	$1\frac{7}{16}$	$\frac{27}{32}$	.45	.27	51	2	$1\frac{11}{32}$	.60	.45
17	$1\frac{13}{32}$	$\frac{7}{8}$	.45	.27	52	$2\frac{3}{32}$	$1\frac{5}{16}$	.75	.50
18	$1\frac{3}{8}$	$\frac{3}{4}$	.45	.27	53	$2\frac{11}{32}$	$1\frac{7}{16}$	Per lb., .18	.45
19	$1\frac{17}{32}$	$\frac{7}{8}$	.50	.27	54	$2\frac{23}{32}$	$1\frac{15}{16}$	.18	.45
20	$1\frac{3}{4}$	$1\frac{3}{32}$	.65	.30	55	$2\frac{7}{8}$	2	.18	.45
21	$1\frac{25}{32}$	$1\frac{1}{16}$	.55	.27	56	$3\frac{1}{16}$	$2\frac{1}{16}$	.18	.45
22	$1\frac{7}{8}$	$1\frac{5}{32}$	.55	.27	57	$3\frac{11}{32}$	$2\frac{1}{4}$	.18	.45
23	$1\frac{27}{32}$	$1\frac{1}{8}$	.55	.27	58	$3\frac{3}{4}$	$2\frac{1}{2}$	.17	.60
24	$1\frac{5}{16}$	$\frac{27}{32}$	.45	.27	59	$3\frac{15}{16}$	3	.17	.45
25	$1\frac{7}{8}$	$1\frac{3}{16}$	.55	.28	60	$4\frac{7}{16}$	$3\frac{1}{16}$	.16	.60
26	$1\frac{13}{16}$	$1\frac{1}{32}$	.55	.28	61	$4\frac{1}{2}$	$2\frac{25}{32}$	.20	.75
27	2	$1\frac{1}{4}$	.65	.30	62	$2\frac{31}{32}$	$1\frac{31}{32}$	.17	.45
28	$2\frac{5}{32}$	$1\frac{9}{32}$	.65	.30	63	$7\frac{15}{16}$	6	.13	.50
29	$2\frac{9}{32}$	$1\frac{1}{2}$	.65	.30	64	$4\frac{15}{16}$	3	.17	.60
30	$2\frac{3}{8}$	$1\frac{1}{2}$	Per lb., .18	.45	65	$1\frac{1}{2}$	$1\frac{1}{32}$	Per 100, .45	.24
31	$2\frac{1}{2}$	$1\frac{9}{16}$	.18	.45	66	$2\frac{5}{16}$	$1\frac{9}{16}$	Per lb., .20	.45
32	$3\frac{1}{4}$	$2\frac{1}{2}$	.18	.45	67	$3\frac{1}{16}$	$2\frac{3}{32}$	.18	.60
33	$3\frac{13}{16}$	3	.18	.50	68	$\frac{29}{32}$	$\frac{1}{2}$	Per 100, .30	.24
34	$7\frac{3}{4}$	6	.14	.45	69	$3\frac{1}{2}$	$2\frac{5}{16}$	Per lb., .18	.70
35	$\frac{21}{32}$	$\frac{3}{8}$	Per 100, .75	.50	70	$1\frac{13}{16}$	$1\frac{1}{8}$	Per 100, .55	.28

The following diagrams show the exact sizes of the Chain Links made by us. We are continually adding new sizes, as called for.

We vary the thickness according to the wants of our customers, and prices vary accordingly.

Chain Links and Chain.

No.	Length.	Center to Center.	Price per 100.	Price per foot.	No.	Length.	Center to Center.	Price per 100.	Price per foot.
71	$4\frac{15}{32}$	3	Per lb., .15	.60	106	$3\frac{1}{4}$	$2\frac{1}{32}$	.17	.65
72	$\frac{5}{8}$	$\frac{3}{8}$	Per 100, .60	.33	107	$\frac{31}{32}$	$\frac{19}{32}$	Per 100, .75	.50
73	$\frac{19}{32}$	$\frac{5}{16}$	.75	.50	108	$4\frac{5}{8}$	$3\frac{1}{4}$	Per lb., .16	.70
74	$\frac{25}{32}$	$\frac{7}{16}$	.75	.50	109	3	2	.18	.50
75	$\frac{13}{16}$	$\frac{1}{2}$	.75	.50	110	$\frac{13}{16}$	$\frac{17}{32}$	Per 100, .75	.50
76	$\frac{13}{16}$	$\frac{7}{16}$	.75	.50	111	$\frac{27}{32}$	$\frac{1}{2}$	.75	.50
77	$\frac{29}{32}$	$\frac{17}{32}$	.75	.50	112	$2\frac{29}{32}$	$2\frac{3}{16}$	Per lb., .20	.40
78	$\frac{29}{32}$	$\frac{17}{32}$	.75	.50	113	$\frac{25}{32}$	$\frac{13}{32}$	Per 100, .75	.50
79	$\frac{15}{32}$	$\frac{1}{4}$	.75	.50	114	2	$1\frac{9}{32}$	Per lb., .20	.40
80	$1\frac{3}{16}$	$\frac{21}{32}$	.50	.40	115	$\frac{15}{16}$	$\frac{17}{32}$	Per 100, .75	.50
81	$1\frac{1}{8}$	$\frac{21}{32}$	.50	.40	116	$\frac{3}{4}$	$\frac{13}{32}$	.75	.50
82	$1\frac{3}{16}$	$\frac{23}{32}$	.40	.24	117	1	$\frac{21}{32}$	.60	.33
83	$1\frac{15}{32}$	$\frac{13}{16}$	.50	.40	118	$\frac{25}{32}$	$\frac{7}{16}$	.75	.50
84	$1\frac{7}{16}$	$\frac{7}{8}$	.45	.30	119	$\frac{7}{8}$	$\frac{15}{32}$	.75	.50
85	$1\frac{13}{32}$	$\frac{27}{32}$	.75	.50	120	$1\frac{3}{16}$	$\frac{19}{32}$	.75	.50
86	$\frac{7}{8}$	$\frac{1}{2}$	.75	.50	121	$\frac{31}{32}$	$\frac{9}{16}$	.75	.50
87	$1\frac{3}{4}$	$1\frac{5}{32}$	.45	.30	122	$\frac{31}{32}$	$\frac{9}{16}$	.75	.50
88	$1\frac{1}{2}$	$\frac{31}{32}$	.45	.30	123	$\frac{5}{8}$	$\frac{11}{32}$	.75	.50
89	$1\frac{1}{2}$	$\frac{27}{32}$	.60	.40	124	1	$\frac{21}{32}$	.60	33
90	$1\frac{5}{8}$	1	.60	.40	125	$\frac{25}{32}$	$\frac{7}{16}$	.75	.50
91	$1\frac{11}{16}$	1	.60	.40	126	$\frac{31}{32}$	$\frac{9}{16}$	.75	.50
92	$1\frac{3}{4}$	1	.65	.50	127	$\frac{27}{32}$	$\frac{7}{16}$	.75	.50
93	$1\frac{7}{8}$	$1\frac{1}{16}$	.75	.55	128	$1\frac{13}{32}$	$\frac{27}{32}$	.65	.30
94	$2\frac{9}{16}$	$1\frac{1}{2}$	Per lb., .18	.60	129	$1\frac{23}{32}$	1	.75	.50
95	$3\frac{5}{8}$	$2\frac{7}{16}$	.18	.70	130	$\frac{31}{32}$	$\frac{9}{16}$	.75	.50
96	3	2	.18	.60	131	$\frac{29}{32}$	$\frac{17}{32}$	.75	.50
97	$5\frac{1}{4}$	$4\frac{1}{32}$	.18	.55	132	$\frac{3}{4}$	$\frac{13}{32}$	.75	.50
98	$\frac{15}{16}$	$\frac{17}{32}$	Per 100, .75	.50	133	$\frac{25}{32}$	$\frac{15}{32}$	1.00	.60
99	$\frac{5}{8}$	$\frac{3}{8}$	.60	.48	137	$1\frac{19}{32}$	1	1.25	.48
100	$\frac{15}{16}$	$\frac{17}{32}$	.75	.50	138	$2\frac{7}{16}$	$1\frac{5}{16}$	1.00	.60
101	$\frac{29}{32}$	$\frac{17}{32}$	.75	.50	139	$2\frac{13}{32}$	$1\frac{7}{16}$	.75	.50
102	1	$\frac{5}{8}$	.75	.50	140	$1\frac{29}{32}$	$1\frac{5}{16}$	.60	.40
103	$1\frac{9}{32}$	$\frac{25}{32}$	.45	.30	141	$2\frac{13}{32}$	$1\frac{17}{32}$	.75	.50
104	$2\frac{1}{8}$	$1\frac{17}{32}$	Per lb., .20	.55	142	$3\frac{1}{4}$	2	Per lb., .18	.70
105	$2\frac{1}{2}$	$1\frac{9}{16}$	.16	.75	143	$7\frac{1}{2}$	6	.13	.48

The following diagrams show the exact sizes of the Chain Links made by us. We are continually adding new sizes, as called for.

We vary the thickness according to the wants of our customers, and prices vary accordingly.

Chain Links and Chain.

No.	Length.	Center to Center.	Price per 100.	Price per foot.	No.	Length.	Center to Center.	Price per 100.	Price per foot.
144	4	3	.22	.75	181	$1\frac{5}{32}$	$\frac{11}{16}$	Per 100, .75	.60
145	$4\frac{1}{32}$	3	.17	.45	182	$3\frac{17}{32}$	$2\frac{5}{16}$	Per lb., .18	.50
146	$\frac{1}{2}$	$\frac{5}{16}$	Per 100, .75	.60	183	$5\frac{9}{32}$	4	.16	.60
147	$2\frac{9}{16}$	$1\frac{3}{4}$	Per lb., .18	.45	184	$3\frac{7}{8}$	$2\frac{3}{4}$	.18	.65
148	$1\frac{23}{32}$	1	Per 100, .70	.40	185	$\frac{23}{32}$	$\frac{11}{32}$	Per 100, .75	.60
149	$\frac{3}{4}$	$\frac{17}{32}$	.75	.50	186	$8\frac{3}{16}$	$6\frac{11}{16}$	Per lb., .12	.60
150	$1\frac{27}{32}$	$1\frac{15}{32}$	2.00		187	$8\frac{1}{2}$	7	.14	.70
151	$1\frac{3}{16}$	$\frac{27}{32}$	.75	.50	192	$\frac{29}{32}$	$\frac{15}{32}$	Per 100, .65	.50
152	$\frac{53}{64}$	$\frac{1}{2}$	.75	.50	203	$\frac{29}{32}$	$\frac{1}{2}$	.65	.50
153	$2\frac{13}{32}$	$1\frac{21}{32}$	Per lb., .18	.45	204	$2\frac{13}{16}$	$1\frac{15}{16}$	Per lb., .18	.40
155	$5\frac{7}{32}$	$3\frac{13}{32}$	.14	.70	205	$1\frac{21}{32}$	$1\frac{5}{32}$	Per 100, .50	.50
156	$1\frac{29}{32}$	$1\frac{9}{32}$	.18	.40	206	$2\frac{3}{4}$	$1\frac{5}{8}$	Per lb., .16	.60
157	$2\frac{1}{8}$	$1\frac{1}{2}$	Per lb., .18	.40	207	$4\frac{23}{32}$	3	.12	.70
158	$2\frac{5}{32}$	$1\frac{5}{32}$	.18	.40	208	$\frac{15}{16}$	$\frac{15}{32}$	Per 100, .65	.50
159	$\frac{25}{32}$	$\frac{7}{16}$	Per 100, .75	.50	209	$\frac{23}{32}$	$\frac{3}{8}$	.75	.60
160	$3\frac{3}{4}$	$2\frac{1}{2}$	Per lb., .17	.45	210	$\frac{25}{32}$	$\frac{13}{32}$	.75	.60
161	$1\frac{3}{16}$	$\frac{5}{8}$	Per 100, .75	.50	211	$2\frac{1}{4}$	$1\frac{1}{2}$	Per lb., .18	.40
162	$\frac{25}{32}$	$\frac{7}{16}$	.75	50	212	$1\frac{5}{16}$	1	Per 100, .60	.50
164	$\frac{7}{16}$	$\frac{1}{4}$	.60	.60	213	$\frac{25}{32}$	$\frac{7}{16}$	60	50
165	2	$1\frac{11}{32}$	Per lb., .18	.40	215	$1\frac{5}{8}$	1	.75	.60
166	$2\frac{7}{16}$	$1\frac{3}{4}$	.18	.40	216	$2\frac{1}{16}$	$1\frac{3}{16}$	Per lb., .18	.40
167	$\frac{13}{16}$	$\frac{17}{32}$	Per 100, .65	.60	217	$1\frac{5}{32}$	$\frac{11}{16}$	Per 100, 60	.50
168	$\frac{3}{4}$	$\frac{17}{32}$	.75	.60	219	$1\frac{7}{8}$	$1\frac{1}{8}$	.75	.60
169	$1\frac{5}{16}$	$\frac{25}{32}$	.70	.50	221	$1\frac{1}{16}$	$\frac{19}{32}$	.65	.50
170	$1\frac{5}{32}$	$\frac{11}{16}$	.70	.50	223	$1\frac{1}{8}$	$\frac{21}{32}$	.65	.50
171	$1\frac{5}{32}$	$\frac{5}{8}$	.70	.50	224	$2\frac{1}{8}$	$1\frac{1}{4}$	Per lb., .18	40
172	$\frac{13}{16}$	$\frac{1}{2}$	.75	.60	225	$1\frac{1}{16}$	$1\frac{1}{32}$	Per 100, .60	.50
173	$\frac{13}{16}$	$\frac{1}{2}$	.70	.50	226	$2\frac{7}{32}$	$1\frac{7}{32}$	Per lb., .18	40
174	$2\frac{3}{4}$	$1\frac{25}{32}$	Per lb., .18	.36	227	$1\frac{1}{2}$	$\frac{7}{8}$	Per 100, .60	.40
175	$\frac{25}{32}$	$\frac{1}{2}$	Per 100, .60	48	228	$4\frac{9}{16}$	$3\frac{9}{32}$	Per lb., .14	.60
176	$1\frac{19}{32}$	$\frac{27}{32}$	.70	60	229	$5\frac{3}{8}$	4	.14	.60
177	$3\frac{9}{16}$	$2\frac{3}{8}$	Per lb., .18		230	1	$\frac{1}{2}$	Per 100, .65	.50
178	$1\frac{29}{32}$	$1\frac{5}{32}$	Per lb., .18	.40	231	$\frac{27}{32}$	$\frac{15}{32}$	.60	.50
179	$3\frac{3}{4}$	2	.16	.60	232	$\frac{23}{32}$	$\frac{1}{2}$	.55	.60
180	$2\frac{23}{32}$	$1\frac{3}{4}$	.18	.50					

The following diagrams show the exact sizes of the Chain Links made by us. We are continually adding new sizes, as called for.

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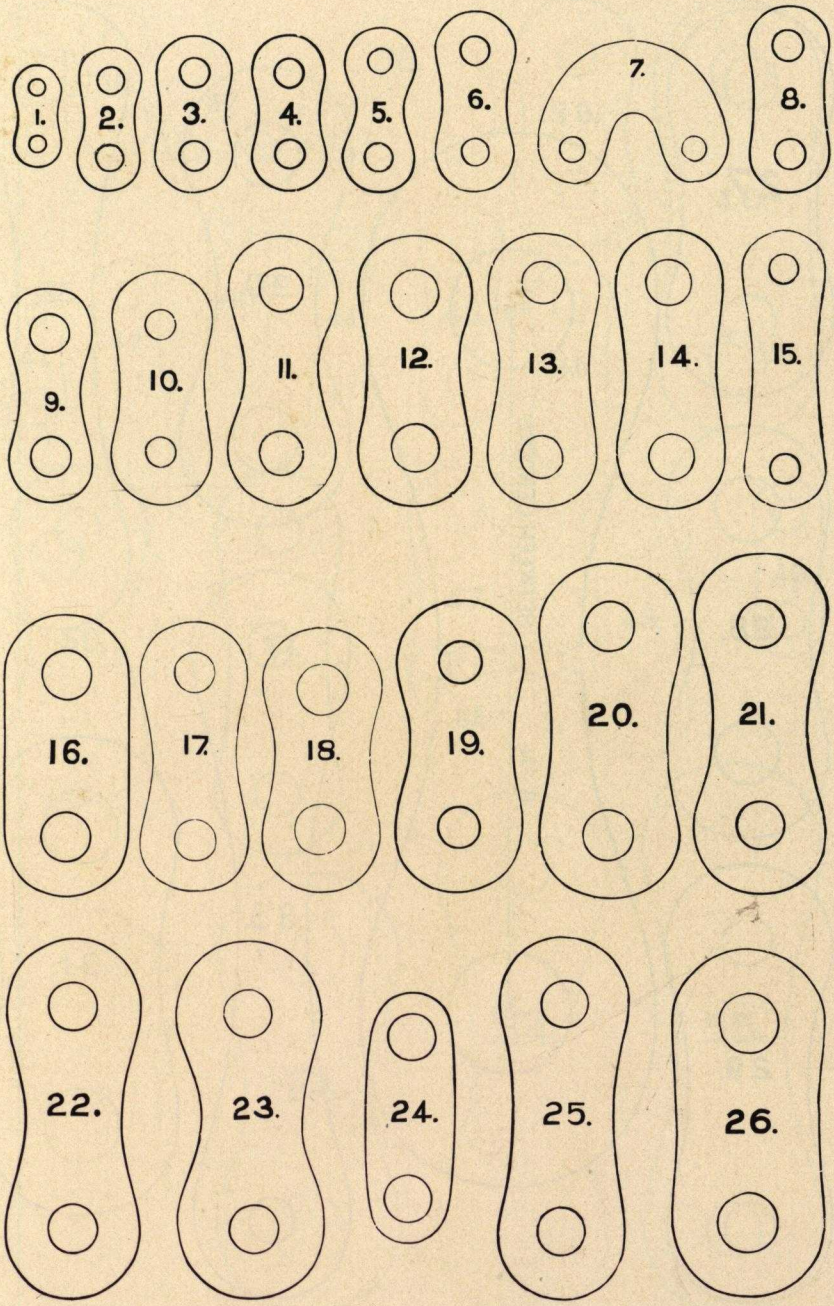
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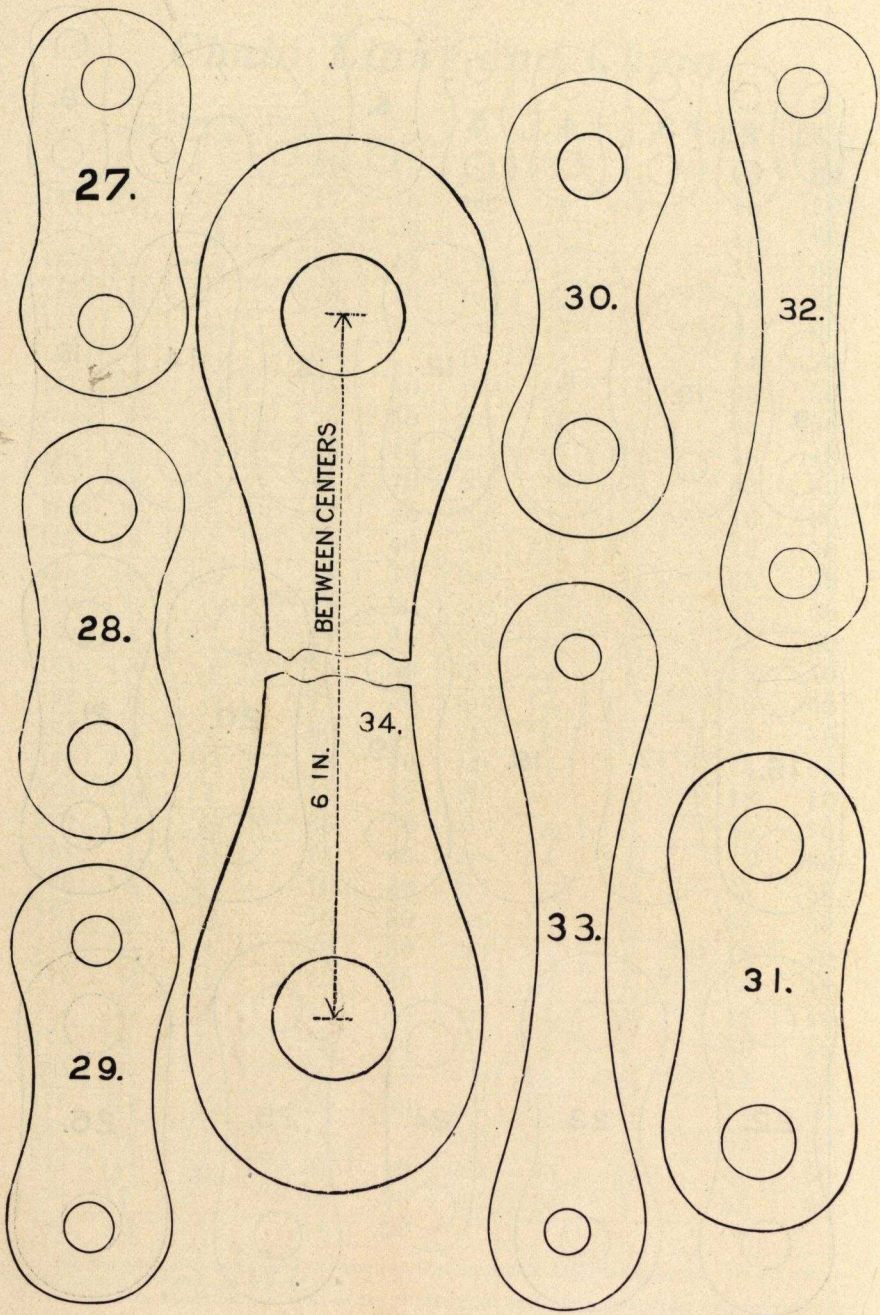
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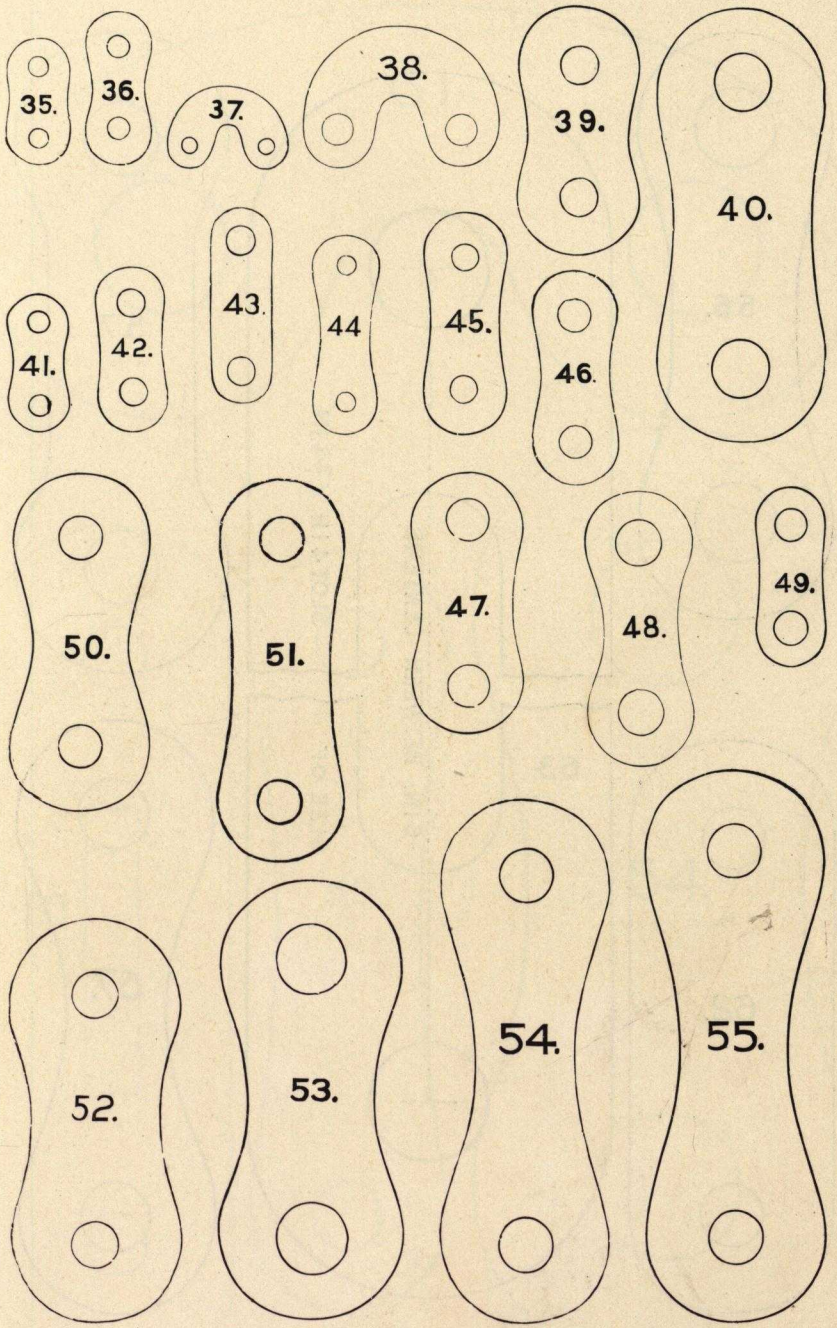
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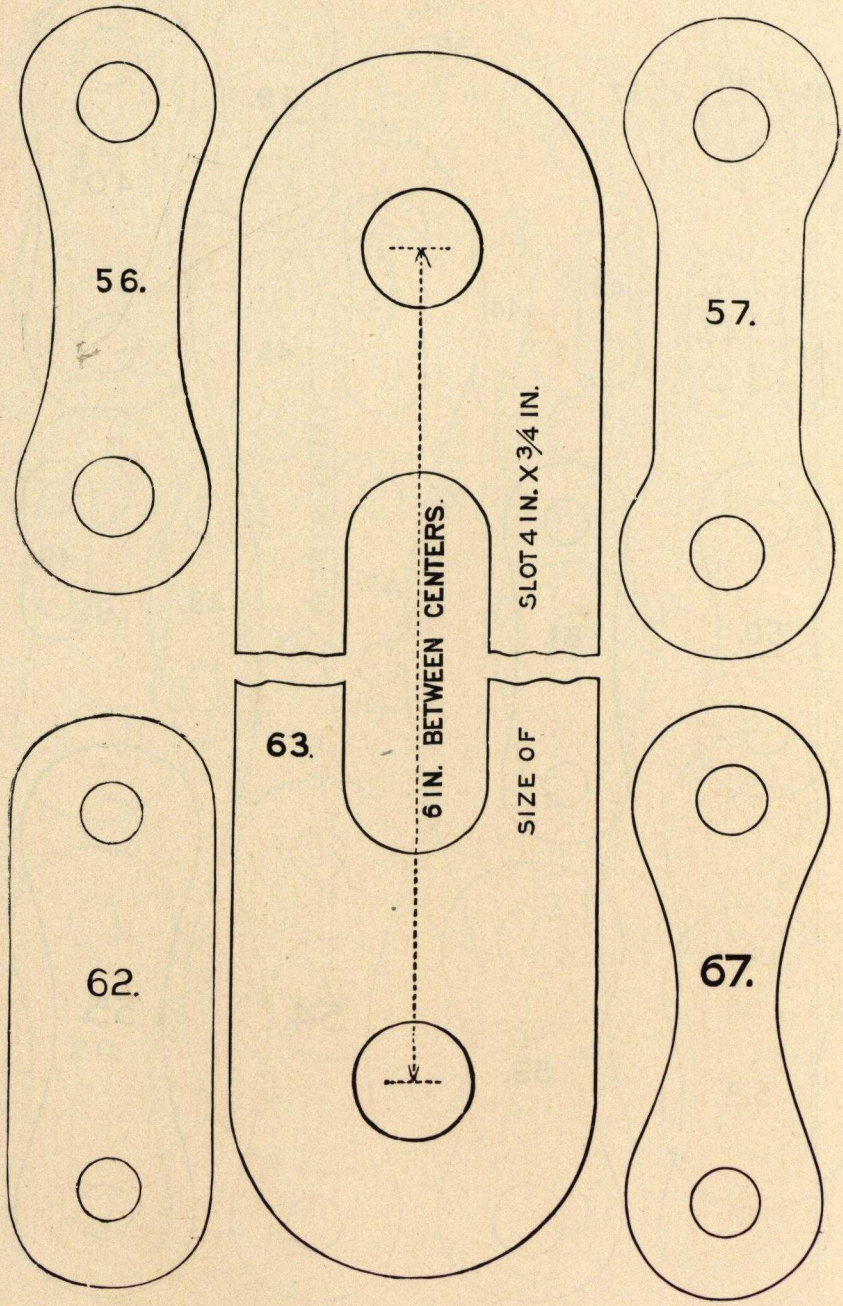
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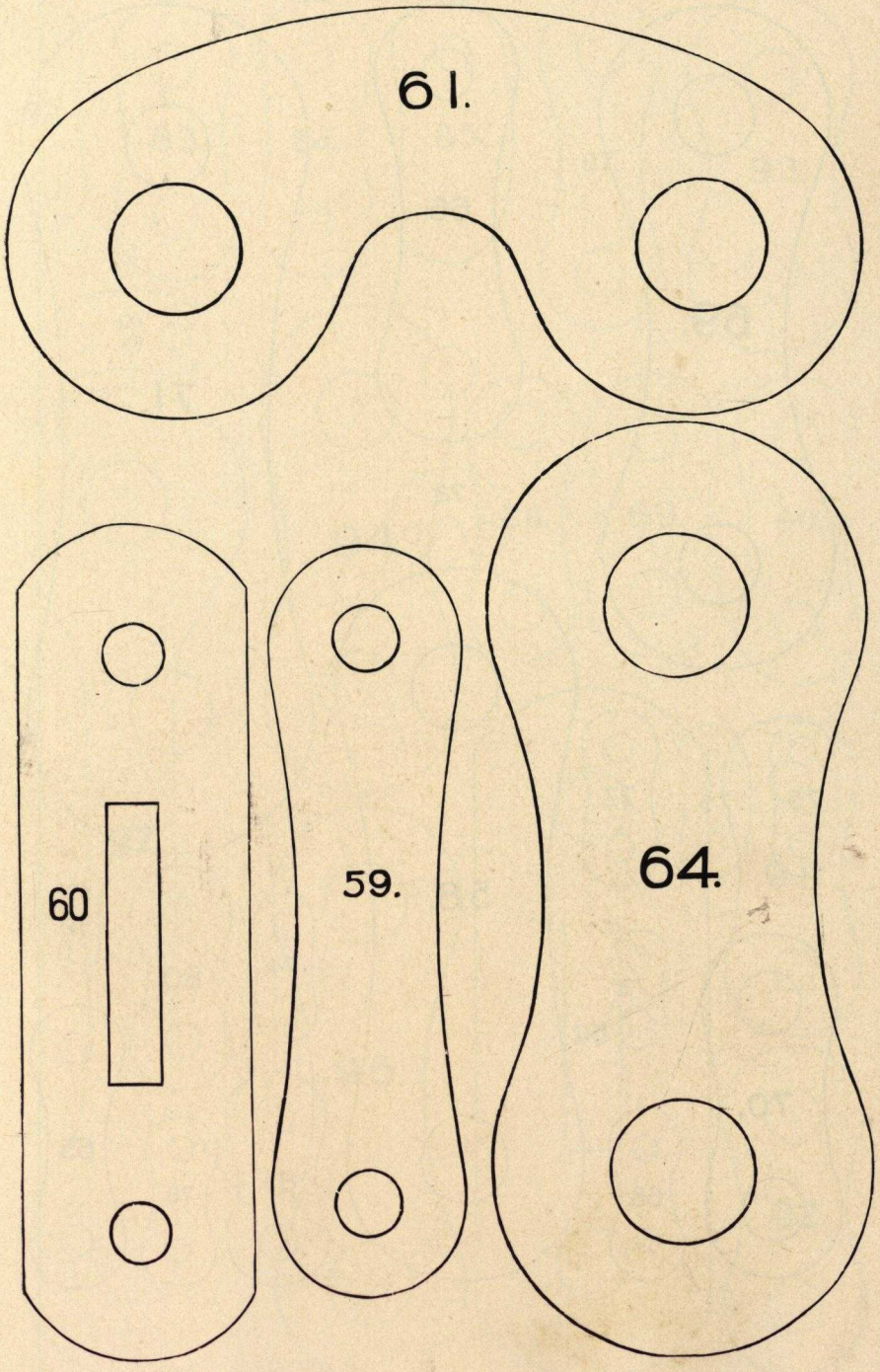
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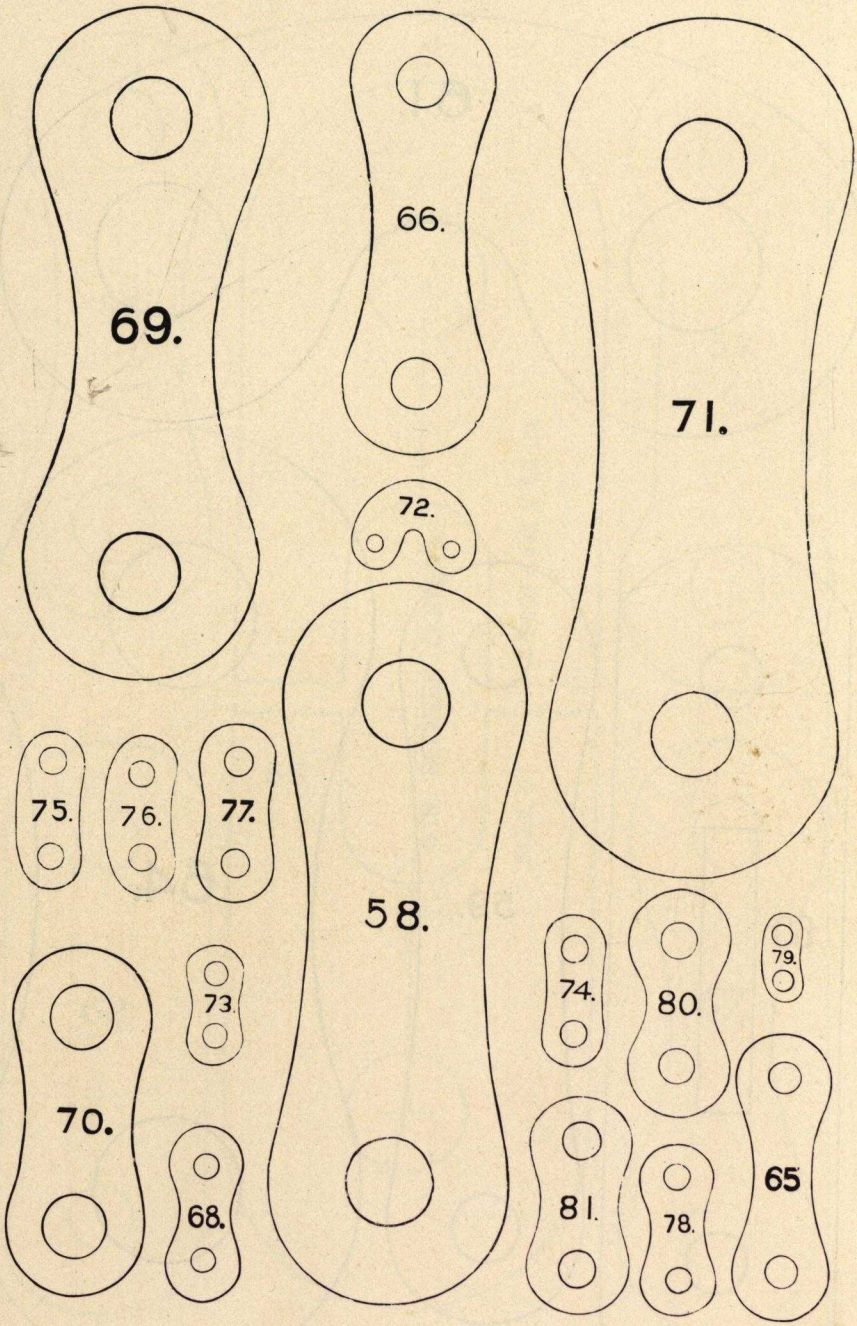
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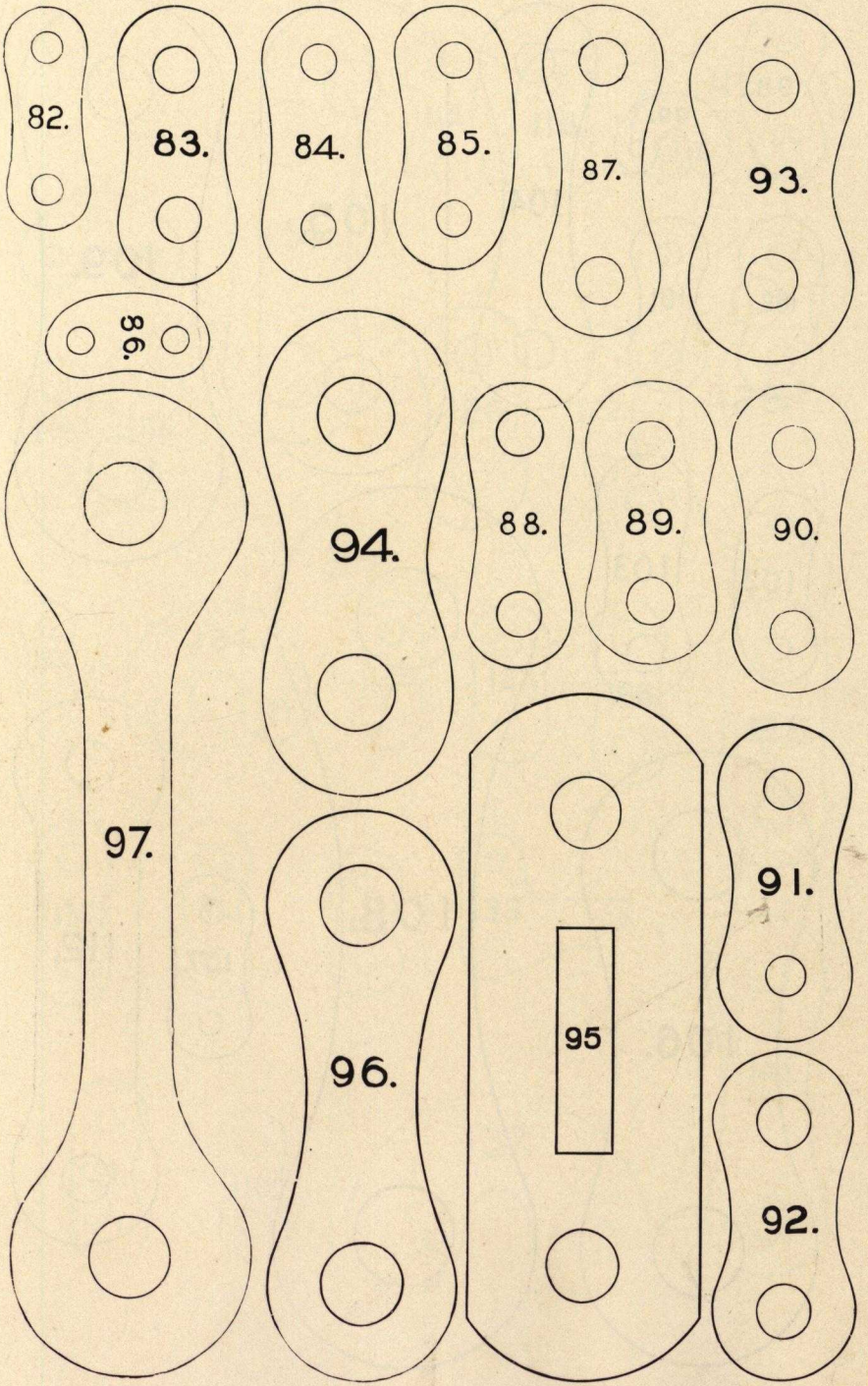
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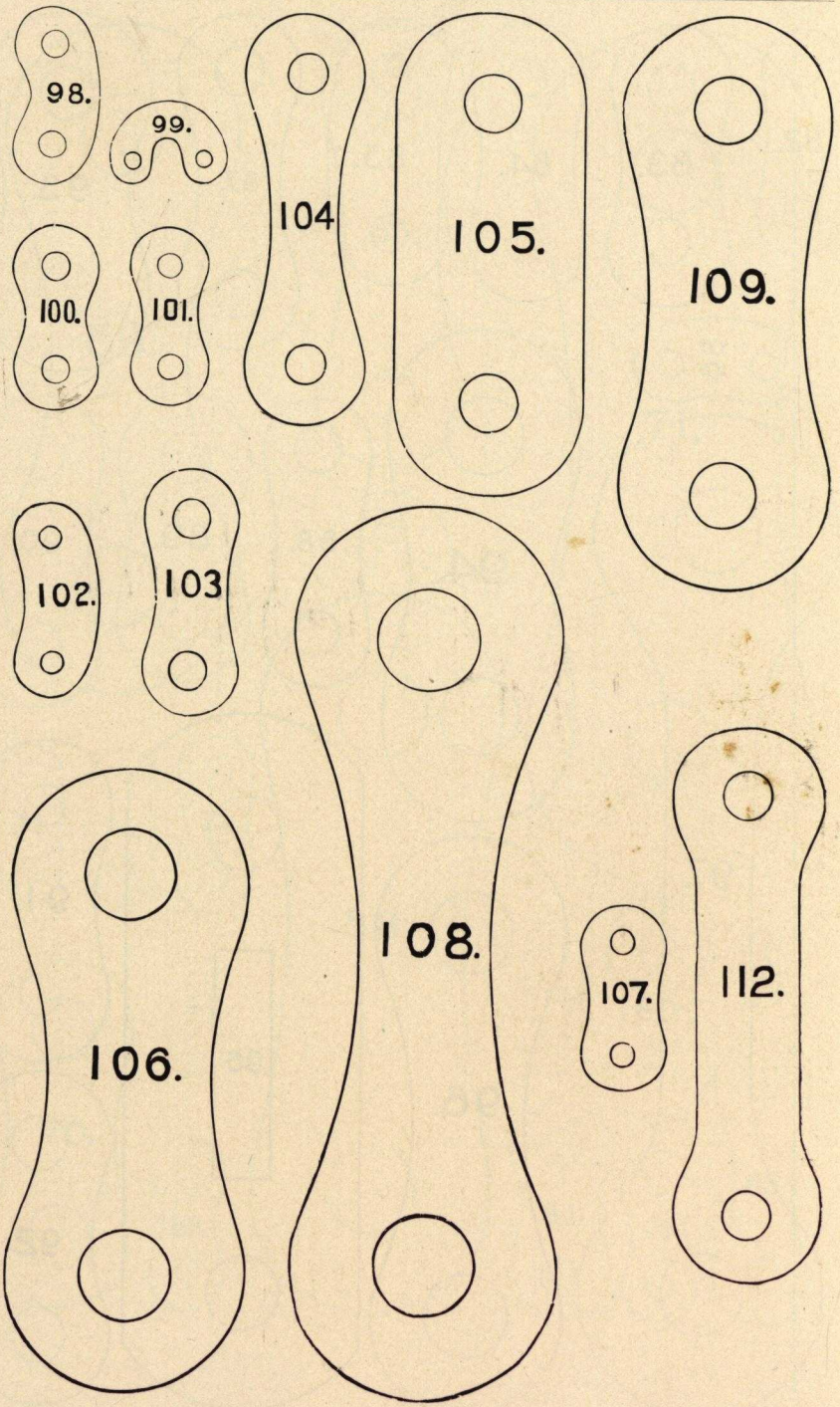
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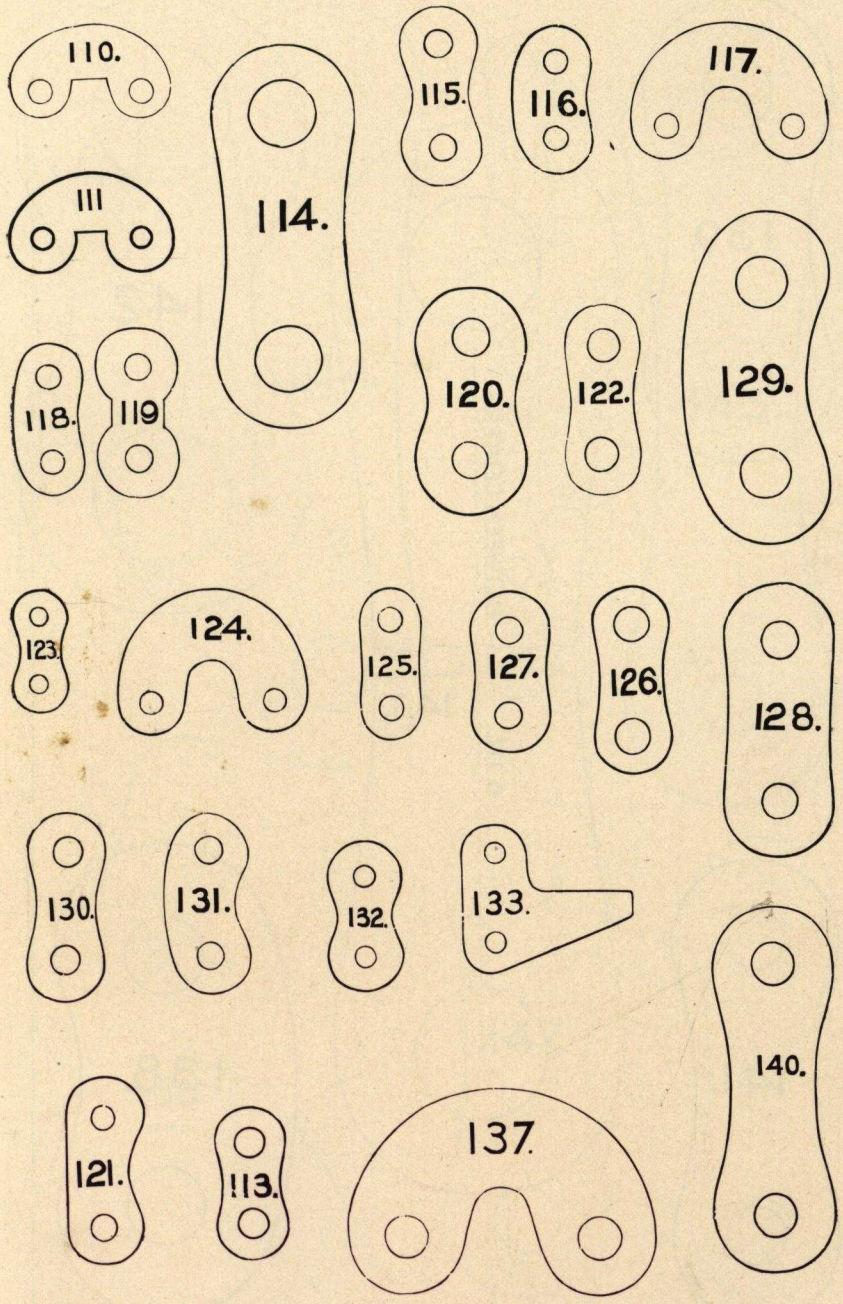
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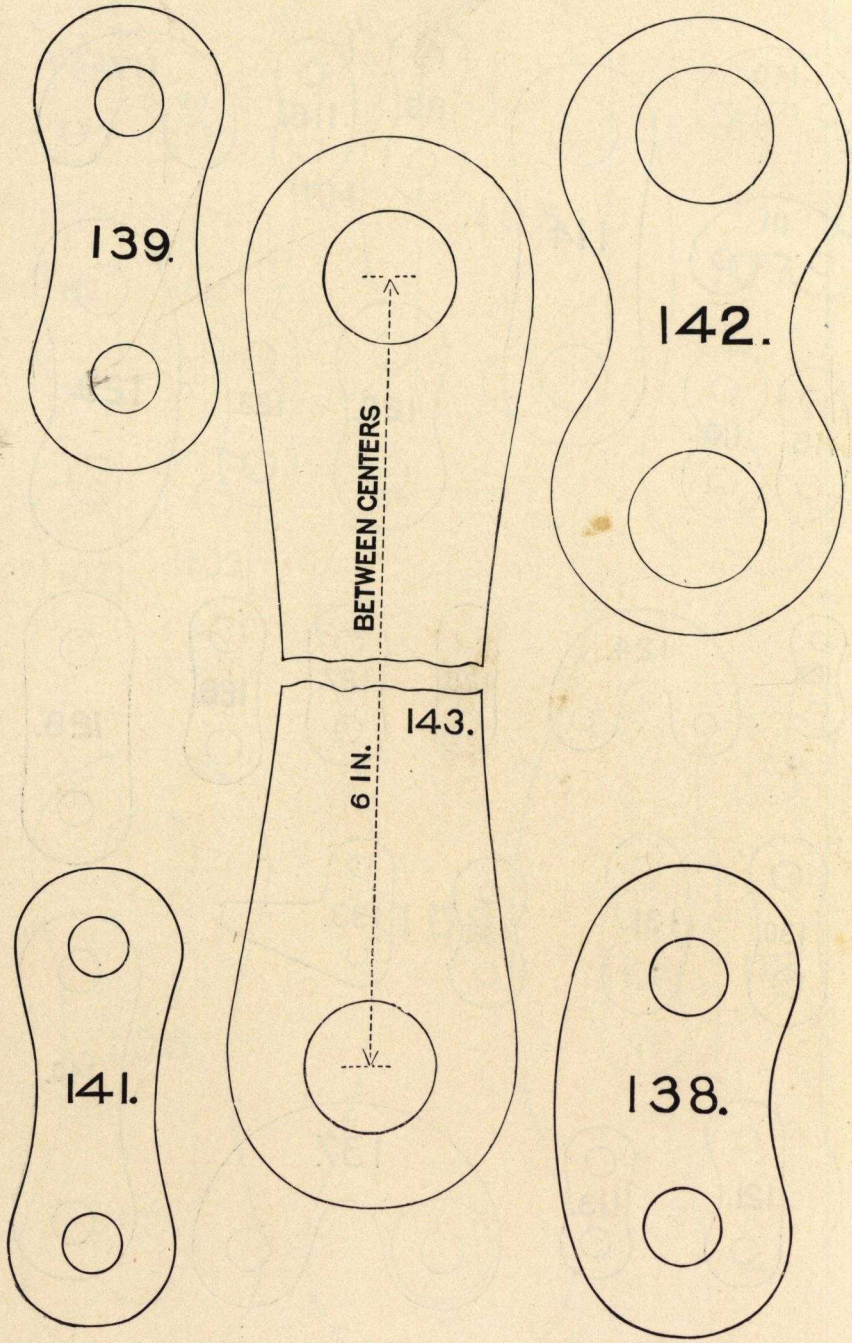
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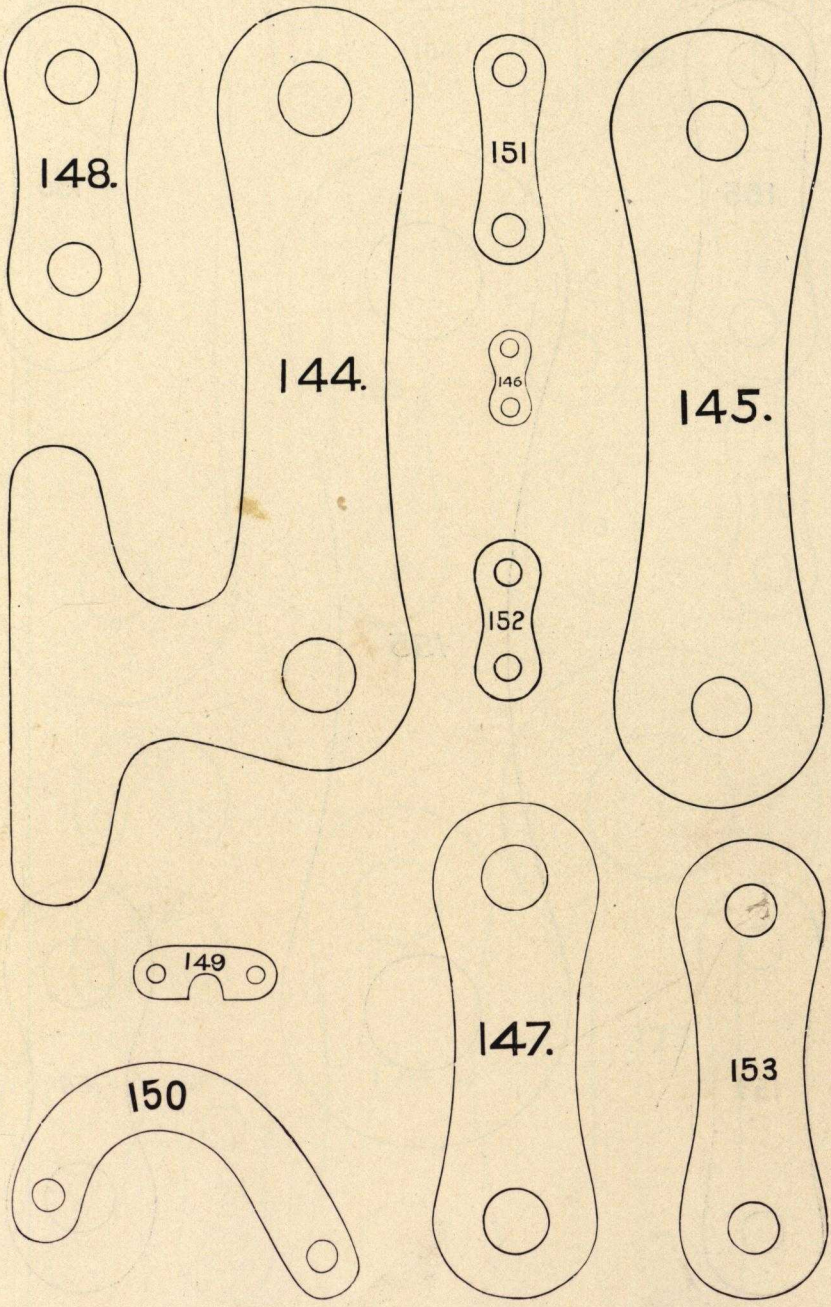
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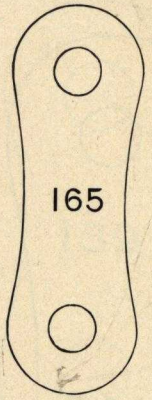
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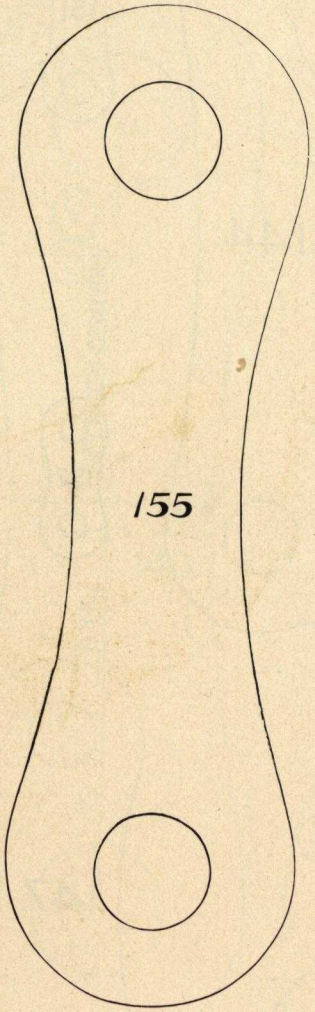
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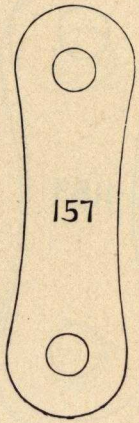
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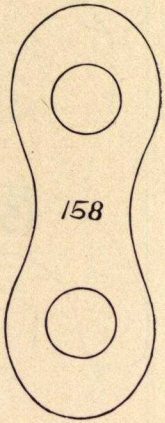
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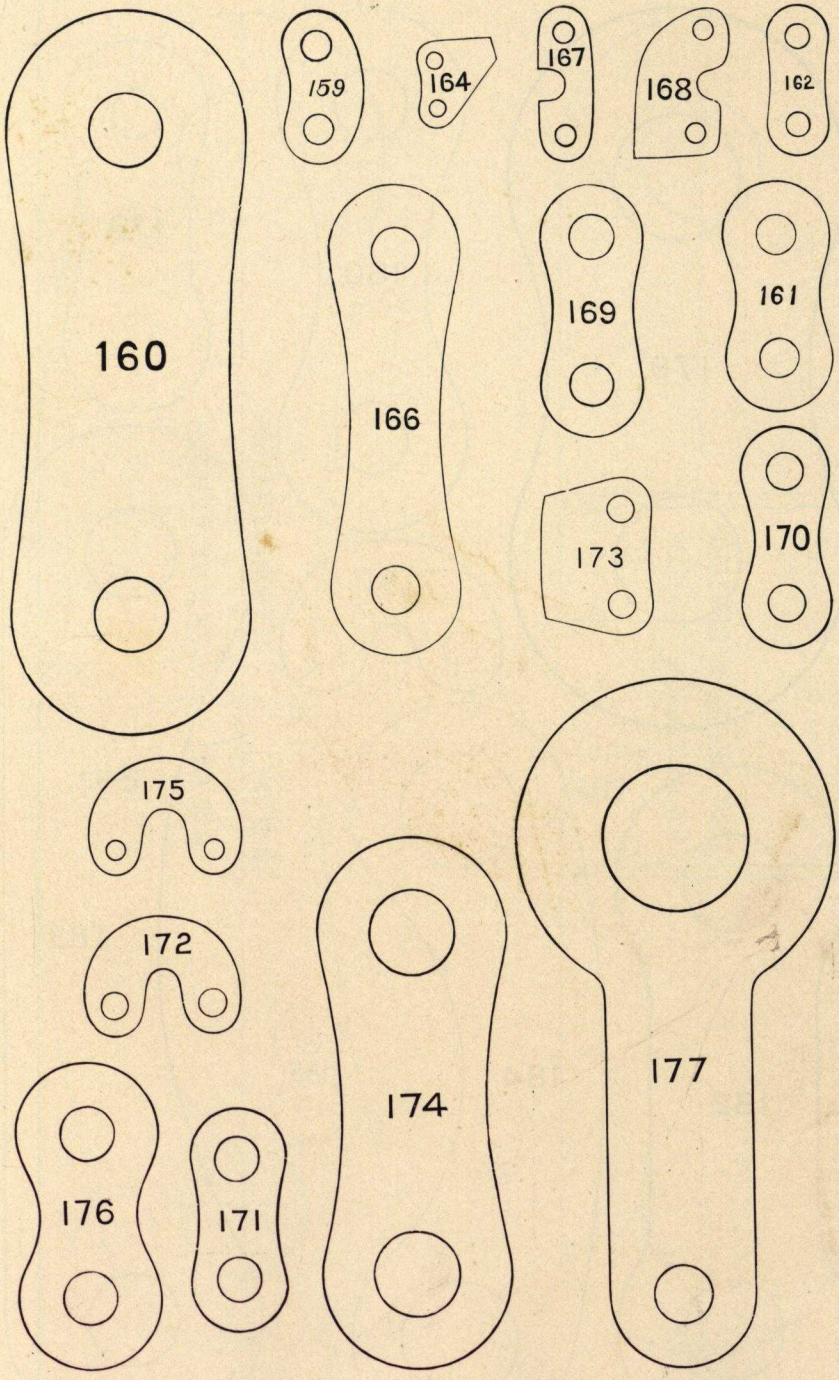
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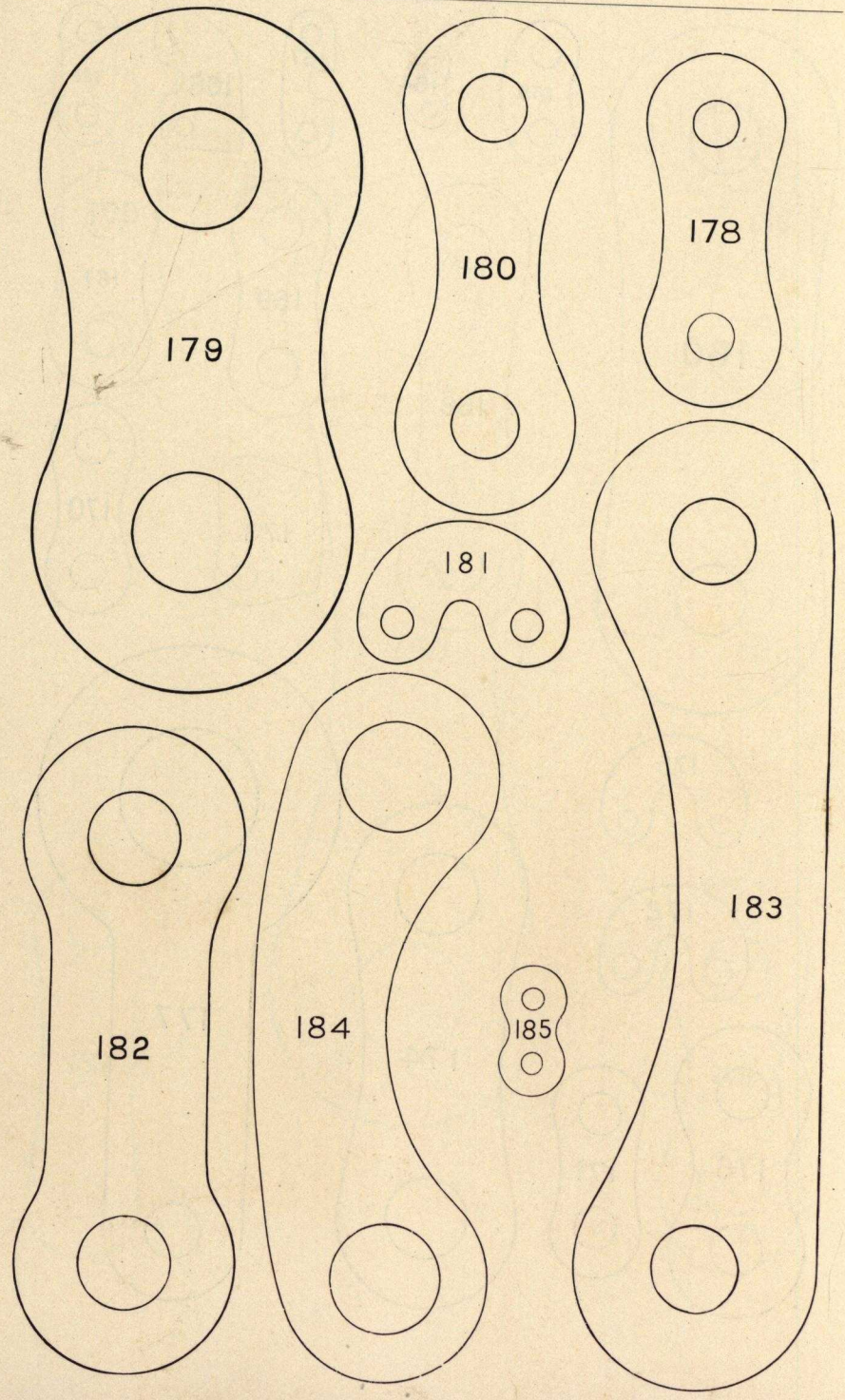
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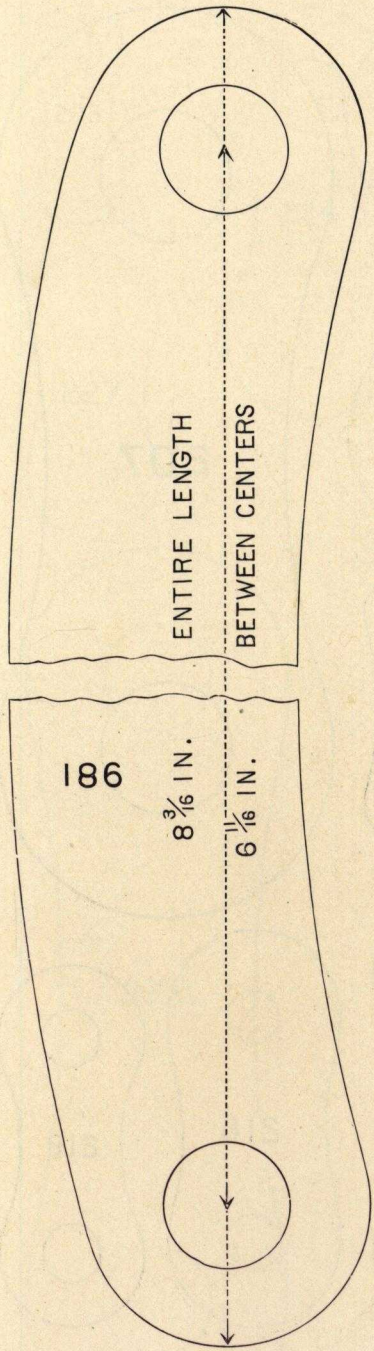
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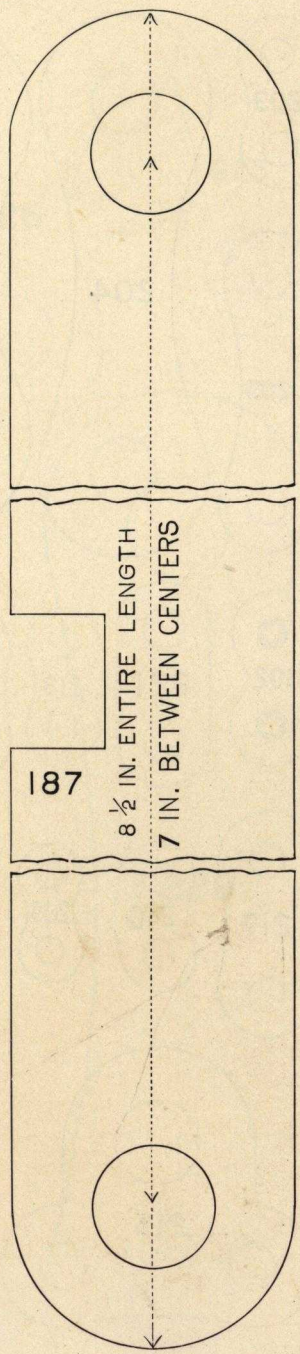
8 3/16 IN.
ENTIRE LENGTH
6 11/16 IN.
BETWEEN CENTERS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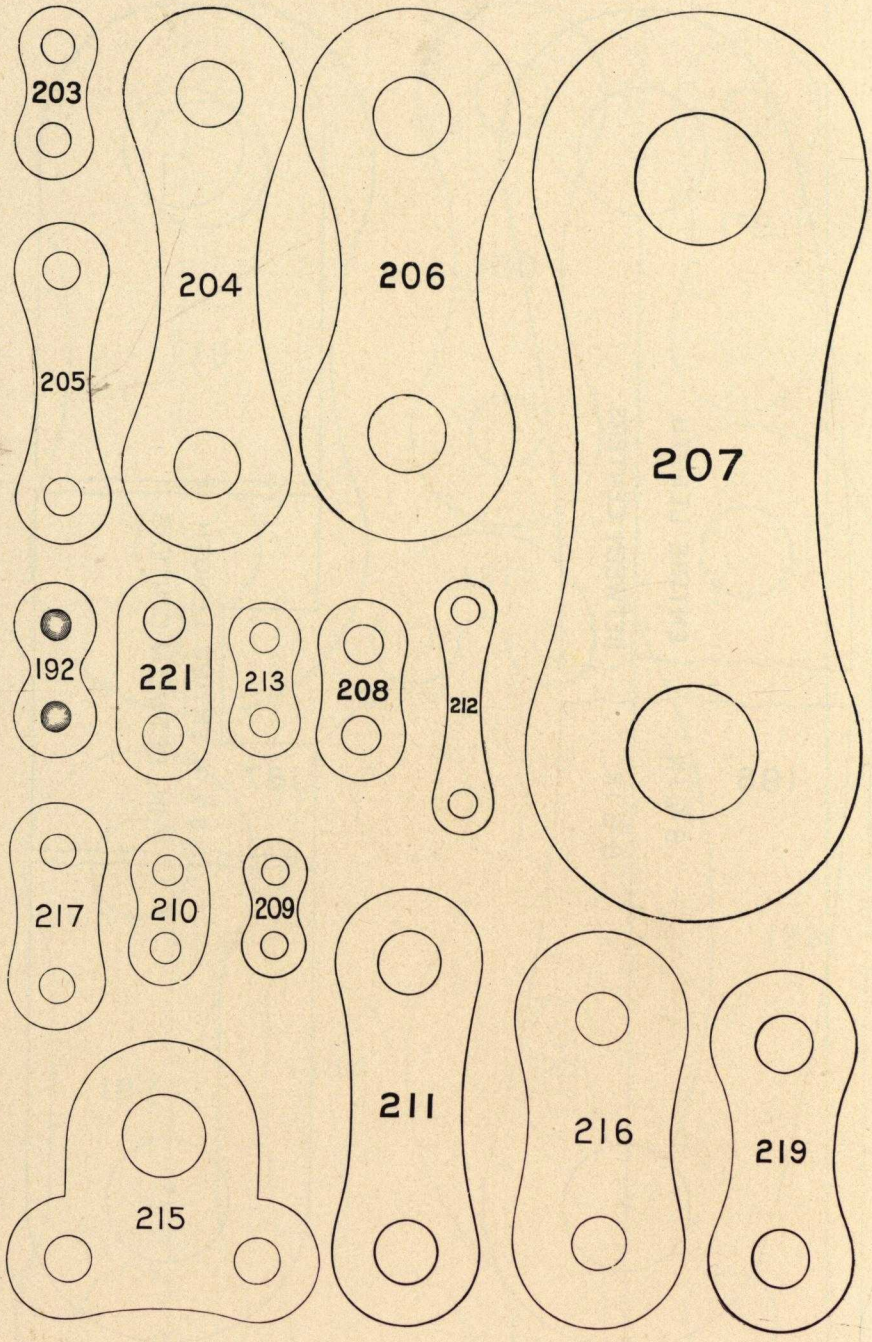
8 1/2 IN. ENTIRE LENGTH
7 IN. BETWEEN CENTERS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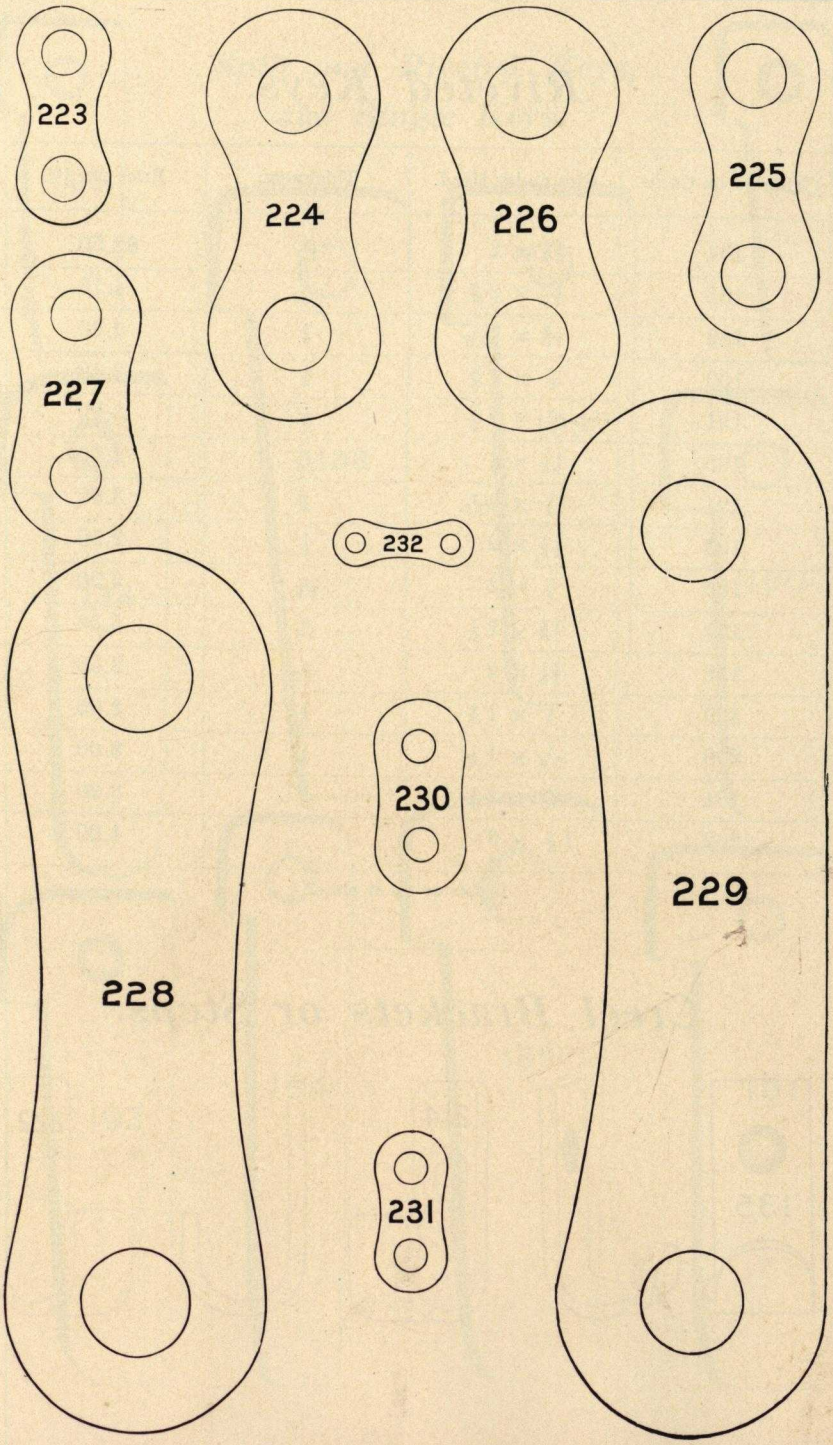
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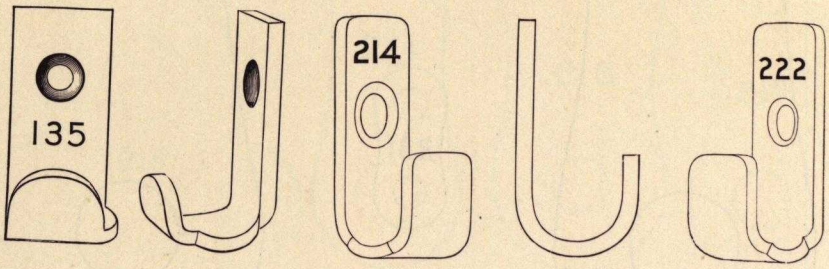
Riveted Keys.

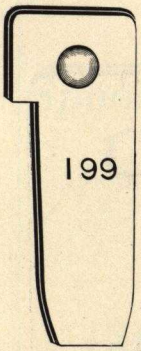
Number on Card.	Size under Head.	Thickness.	Price per 100.
134	$\frac{19}{32} \times 2$	$\frac{3}{16}$	$2.50
188	$\frac{13}{16} \times 2\frac{5}{8}$	$\frac{5}{32}$	4.75
189	$\frac{13}{16} \times 2\frac{5}{16}$	$\frac{3}{8}$	3.20
190	$\frac{5}{8} \times 1\frac{5}{8}$	$\frac{1}{8}$	2.40
191	$\frac{3}{4} \times 2\frac{1}{4}$	$\frac{1}{8}$	3.20
193	$\frac{11}{16} \times 2$	$\frac{3}{16}$	2.50
194	$\frac{1}{2} \times 2\frac{7}{16}$	$\frac{1}{8}$	3.00
195	$\frac{11}{16} \times 2$	$\frac{1}{8}$	2.50
196	$\frac{7}{8} \times 2$	$\frac{5}{32}$	3.20
197	$\frac{15}{16} \times 2\frac{1}{2}$	$\frac{3}{16}$	5.50
198	$\frac{11}{16} \times 2$	$\frac{5}{32}$	2.50
199	$\frac{1}{2} \times 1\frac{1}{4}$	$\frac{1}{8}$	2.00
200	$\frac{7}{16} \times 1\frac{1}{4}$	$\frac{1}{8}$	2.00
201	$\frac{5}{8} \times 2\frac{1}{2}$	$\frac{1}{8}$	3.20
202	$1\frac{1}{4} \times 3$		4.60

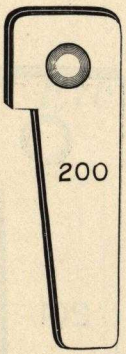
In lots of 100 or more.

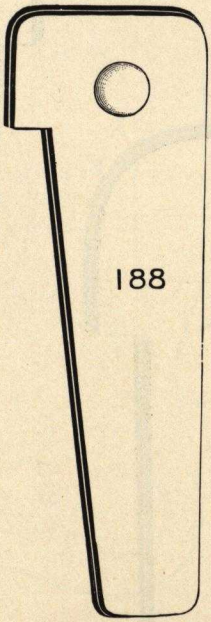
Creel Brackets or Steps.

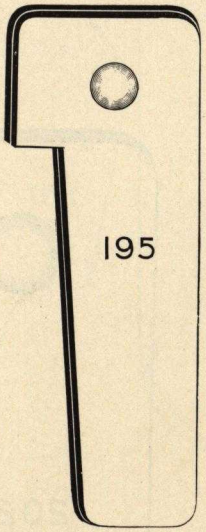


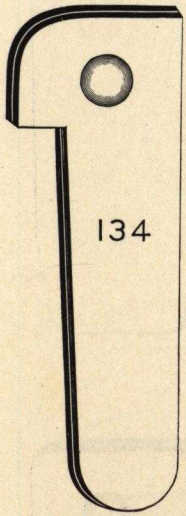
Split and Riveted Keys, and Single Keys.

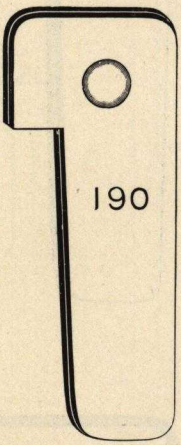


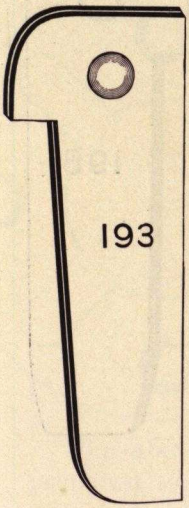


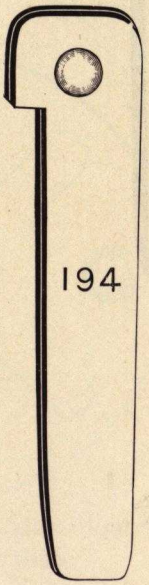


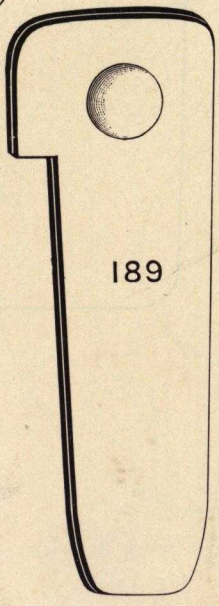


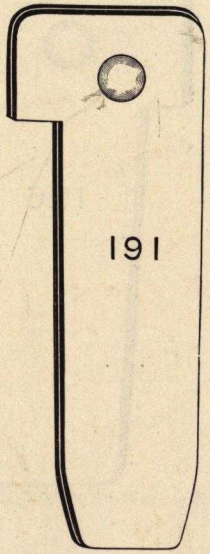




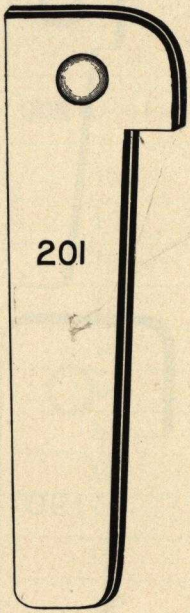


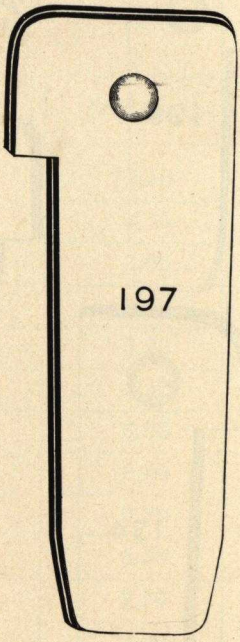


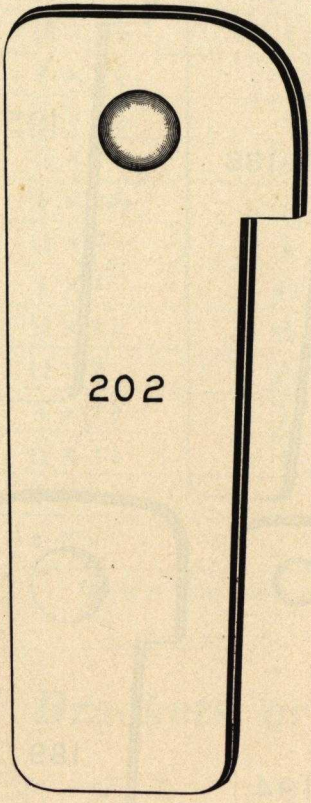


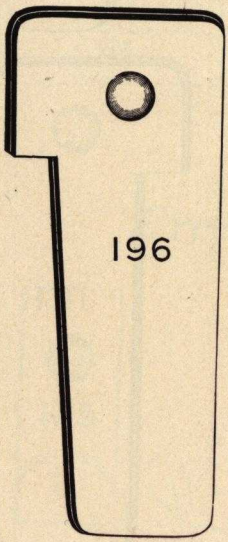


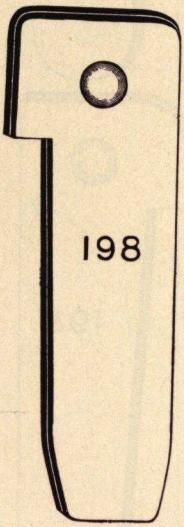
Riveted Keys.—Continued.





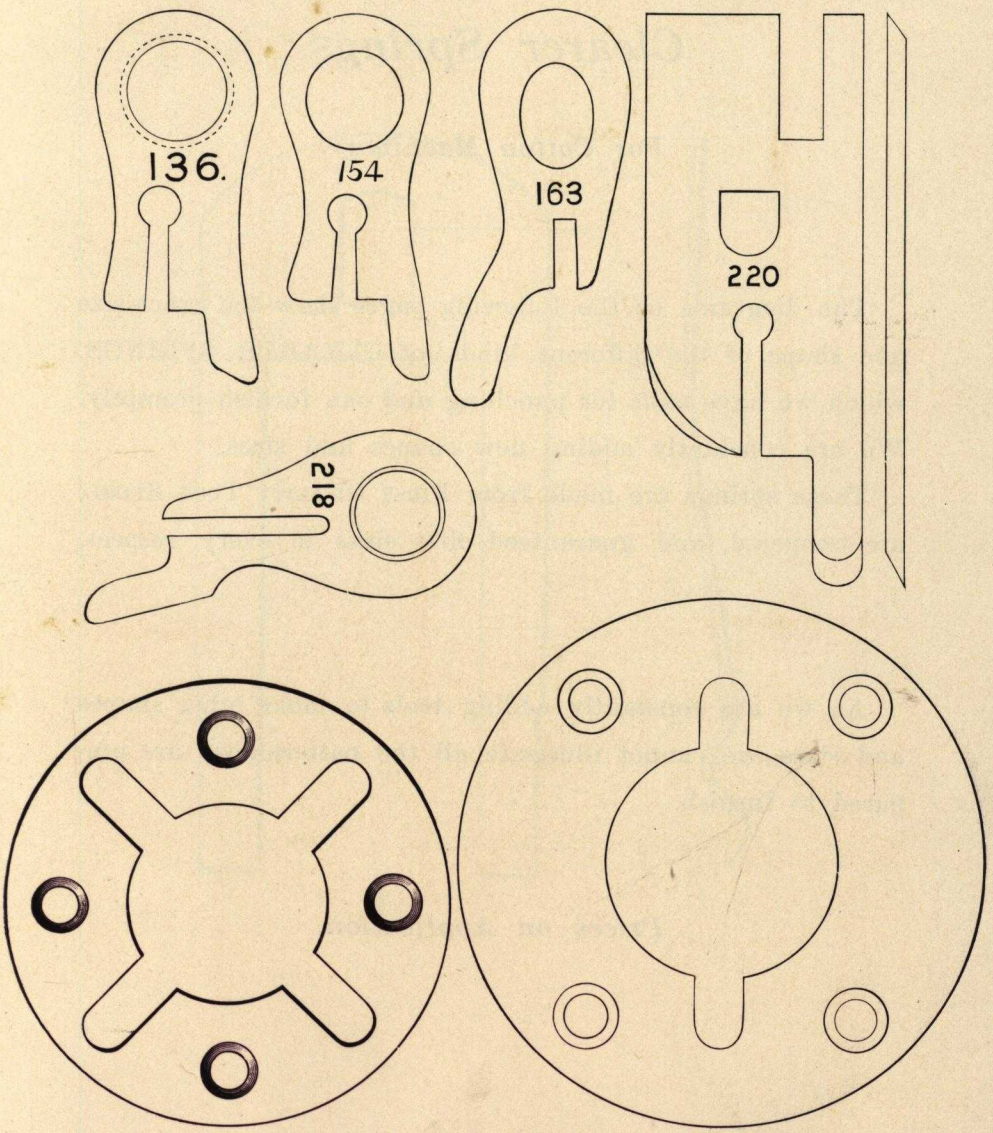






Special Keys, Spool Locks, Bobbin Plates, Etc.

Made to Order.



The above cuts illustrate only a few of the sizes we are prepared to furnish.

Clearer Springs.

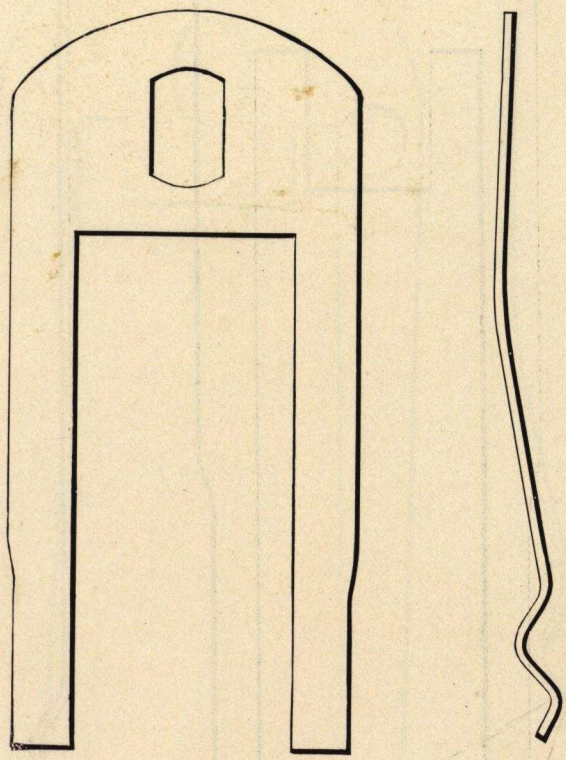
For Cotton Machinery.

The diagrams on the following pages show the exact size and shape of the different kinds of CLEARER SPRINGS, which we have tools for punching and can furnish promptly. We are constantly adding new shapes and sizes.

These springs are made from FIRST QUALITY TOOL STEEL, are tempered, and guaranteed first class in every respect.

As we are constantly adding tools to make other shapes and sizes, we cannot illustrate all the patterns we are prepared to furnish.

Prices on Application.



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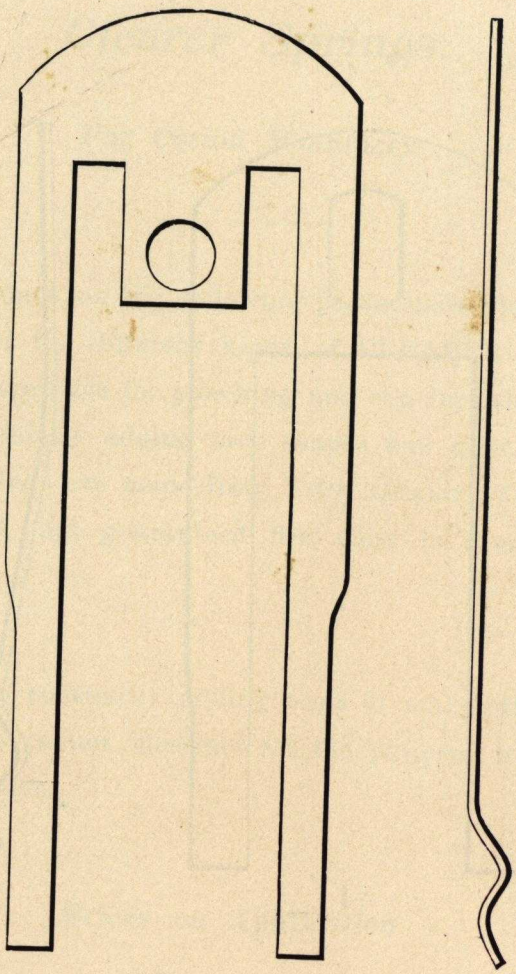

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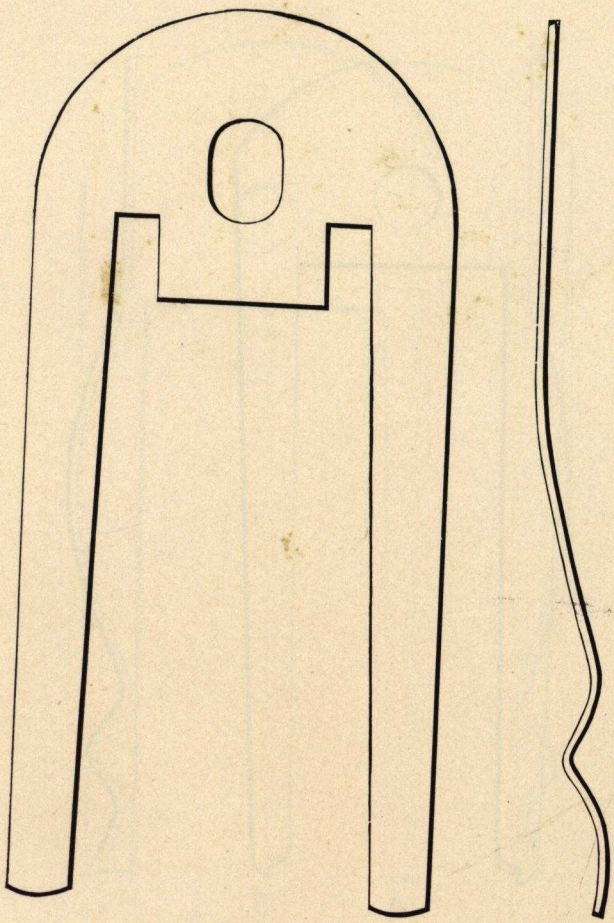

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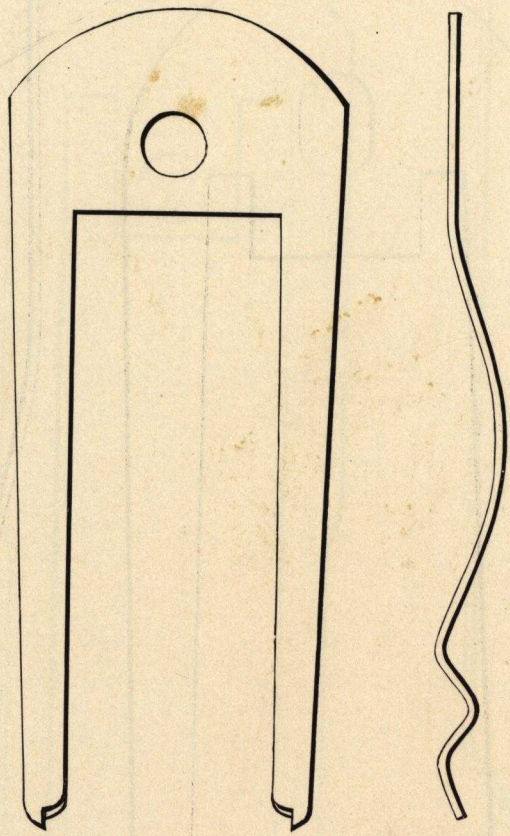

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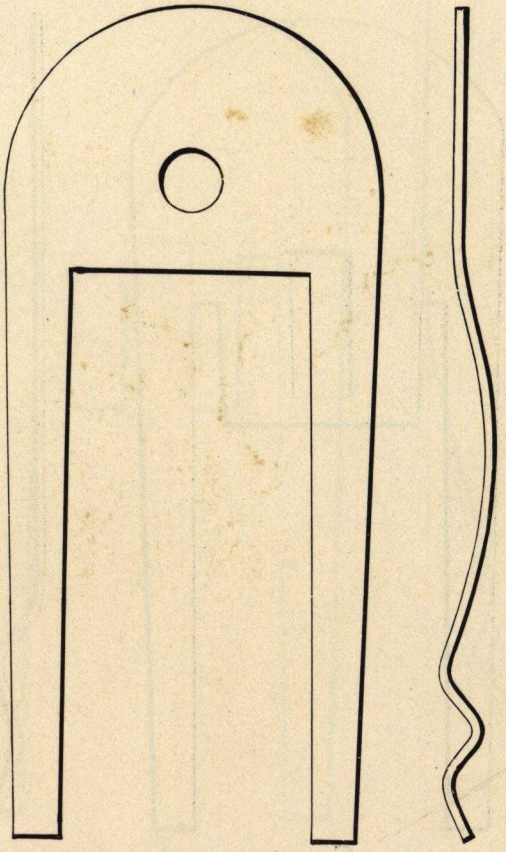

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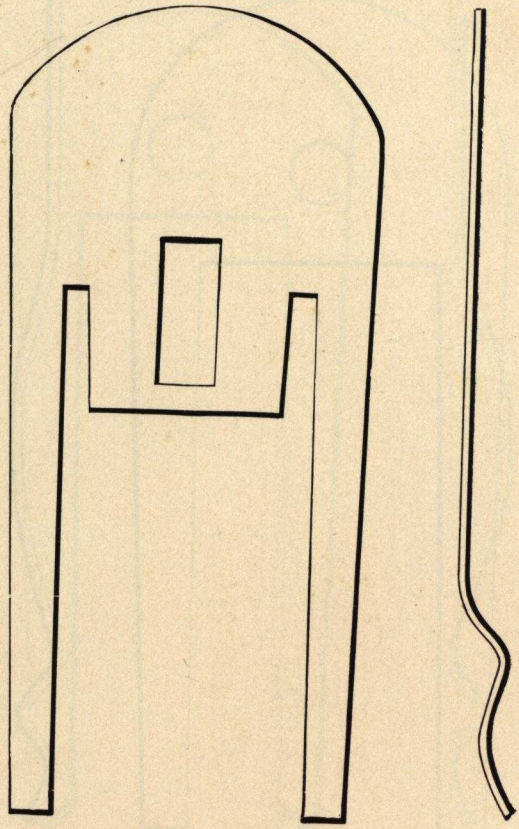

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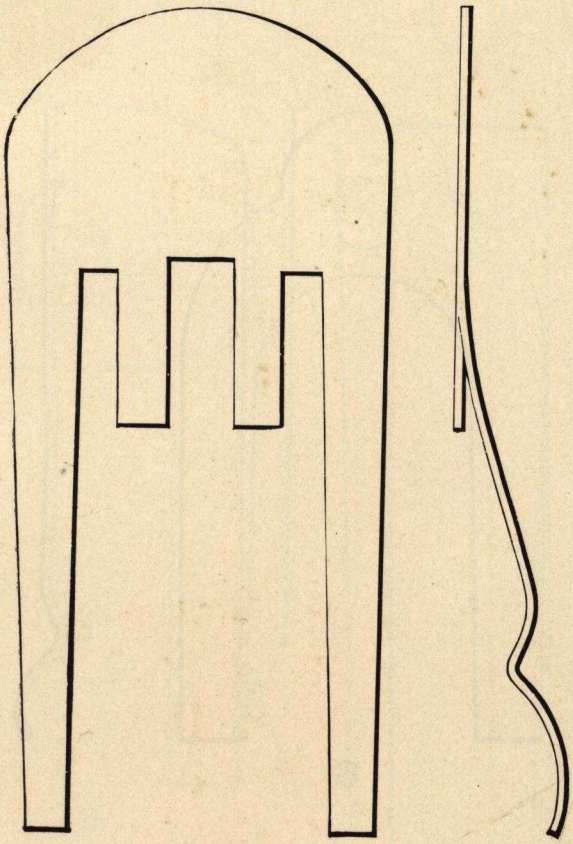

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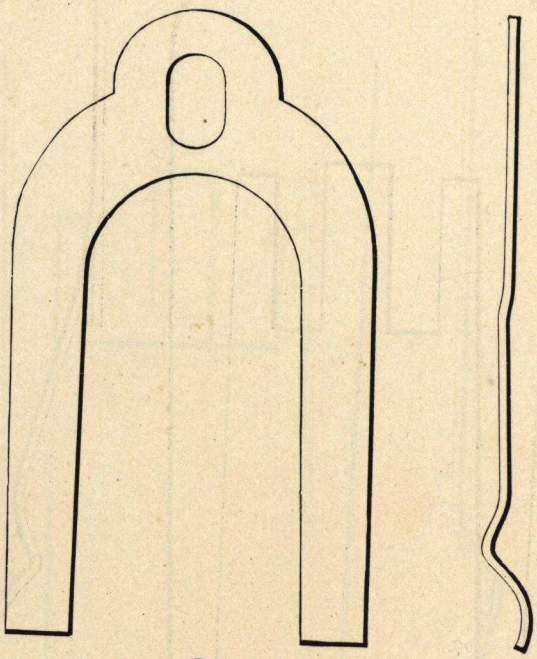

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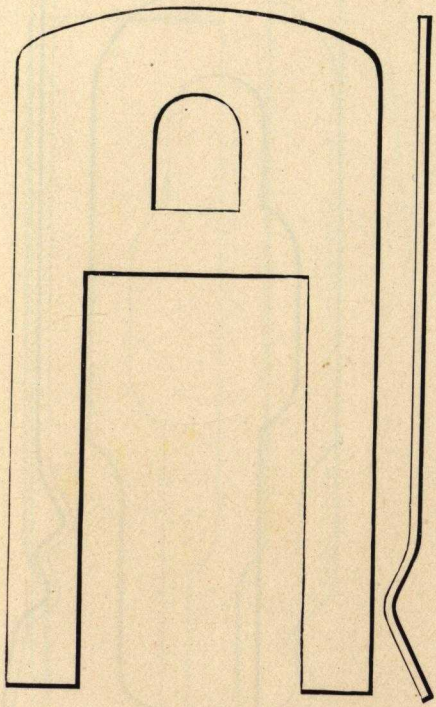

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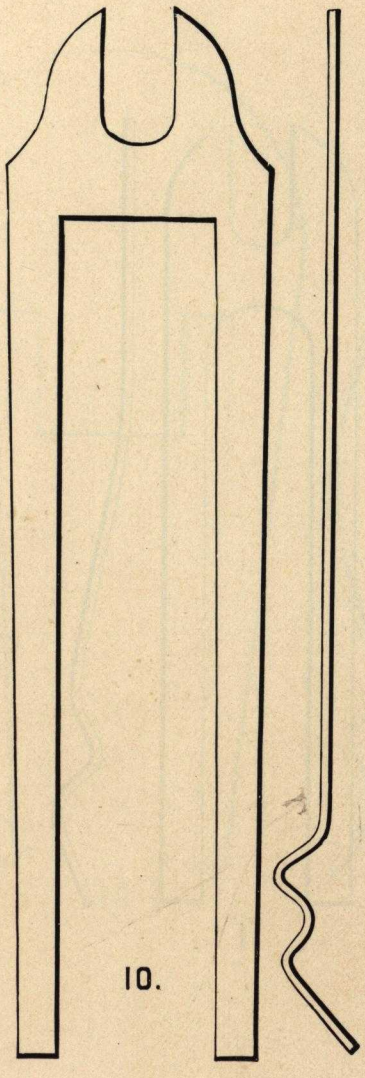

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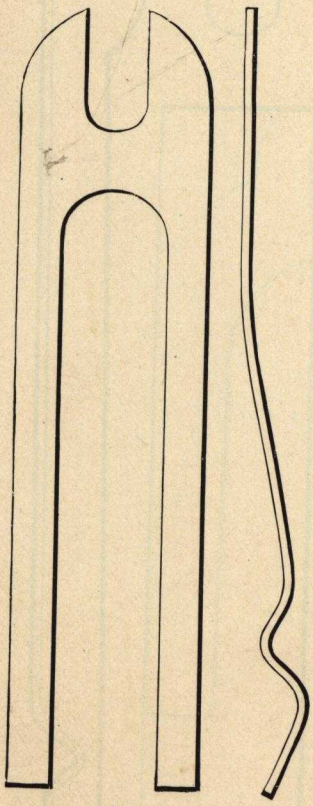

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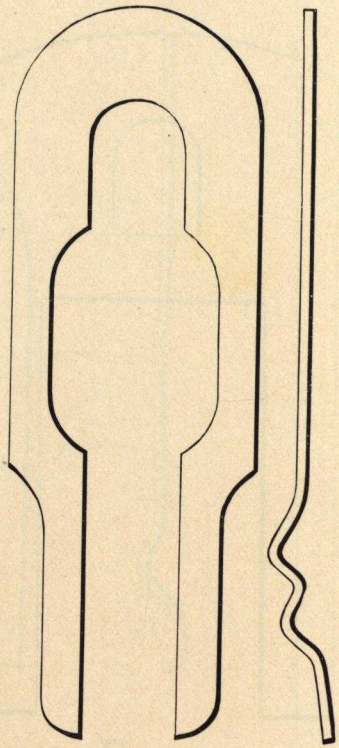

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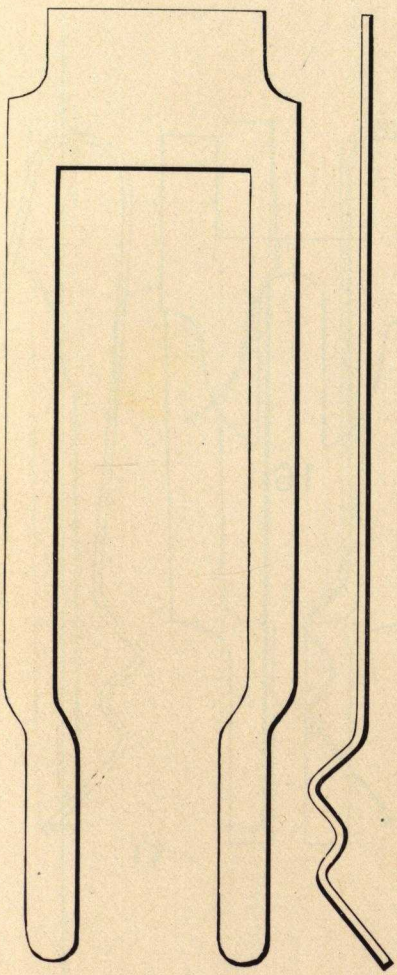

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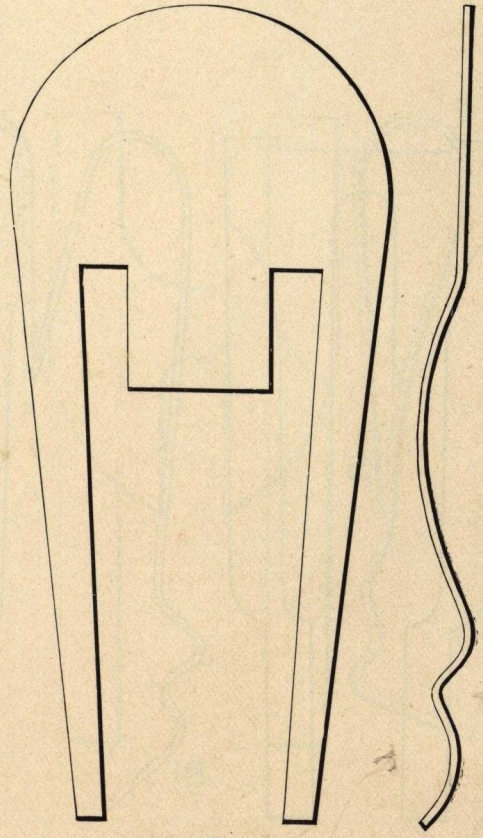

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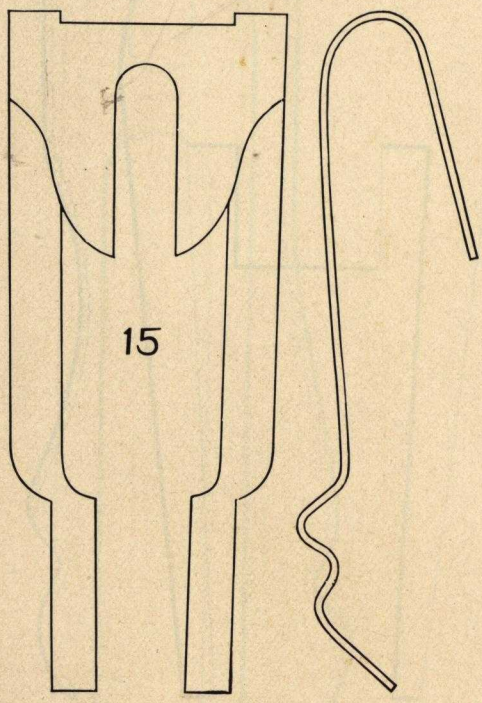
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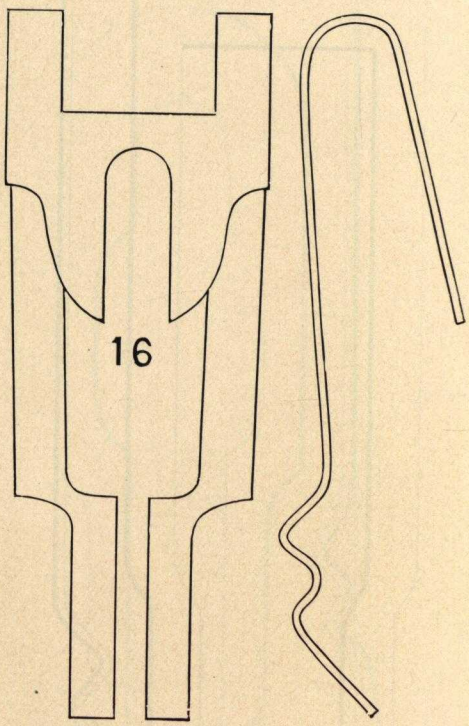
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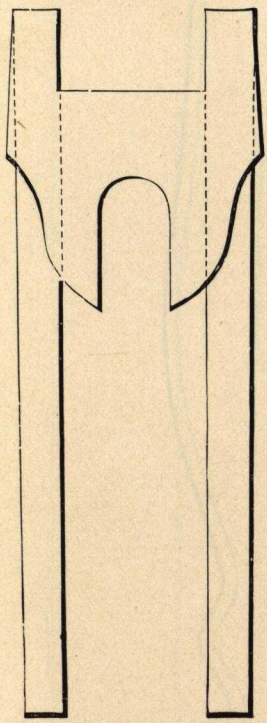

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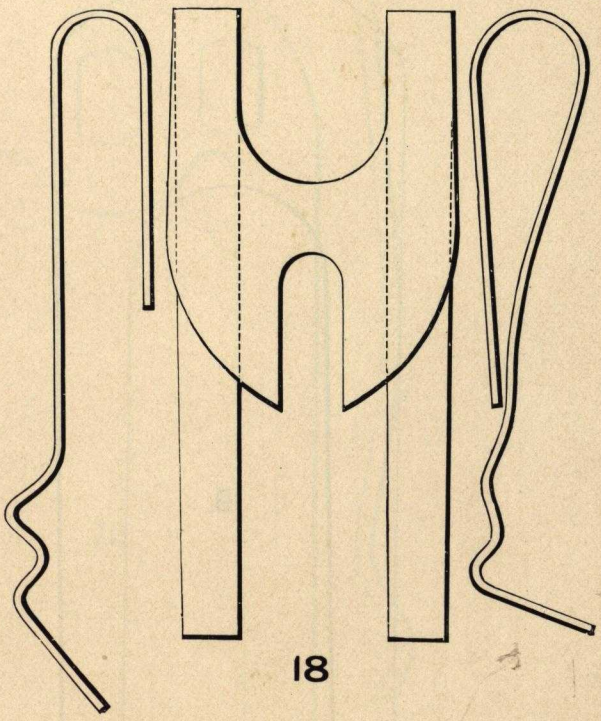

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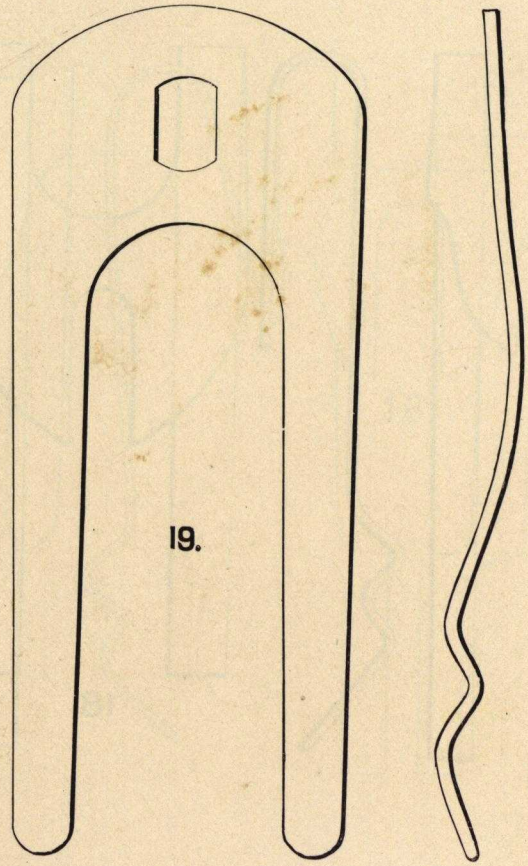
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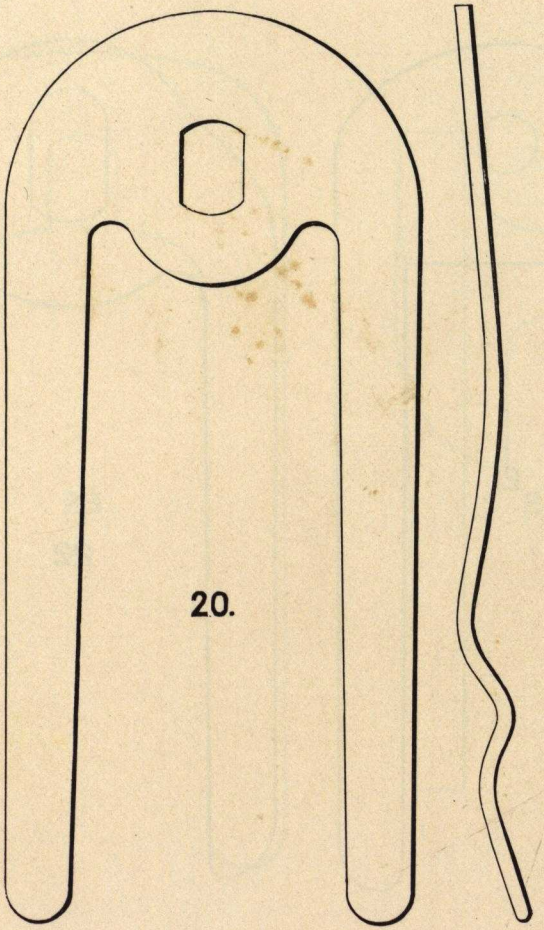

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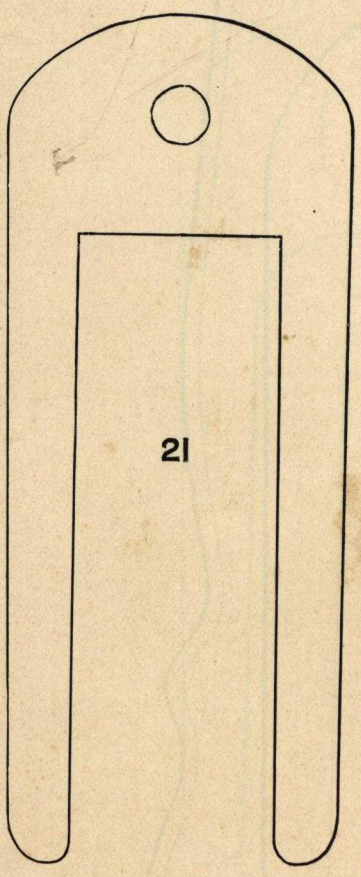
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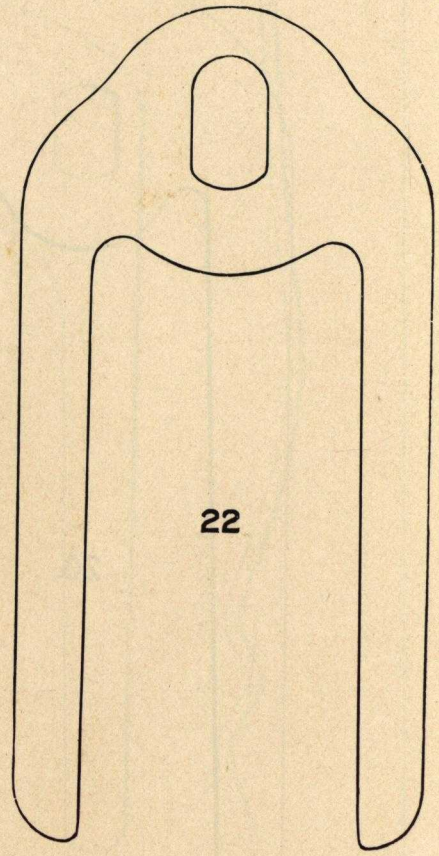
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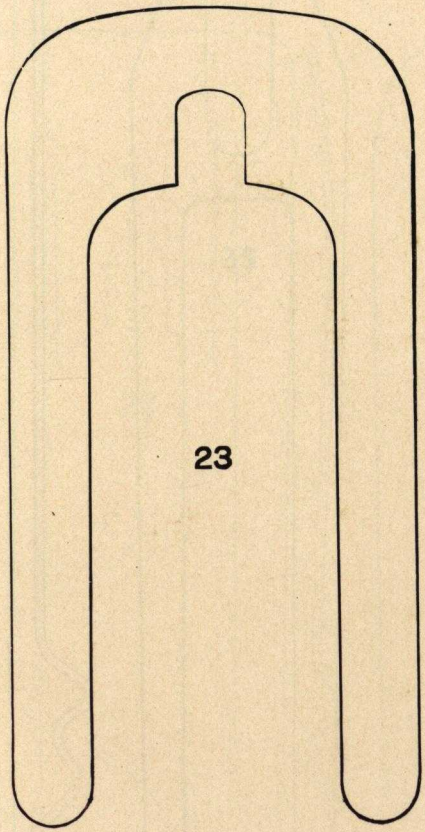
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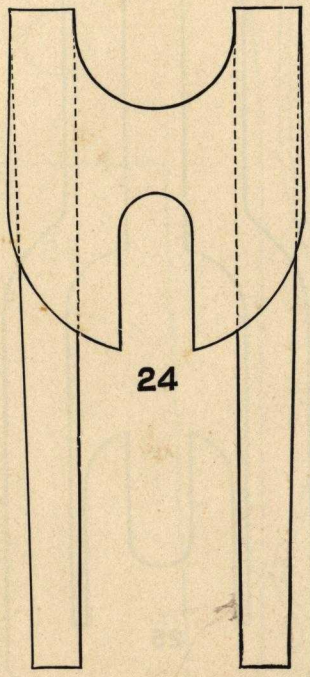
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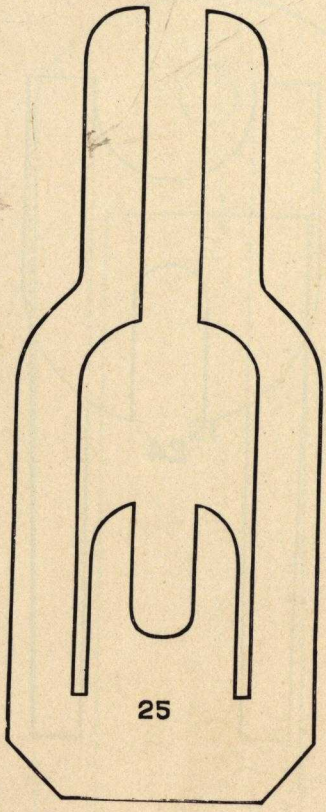
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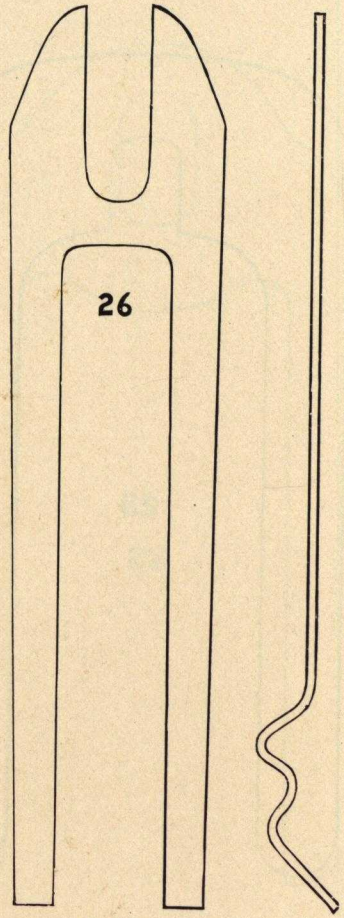
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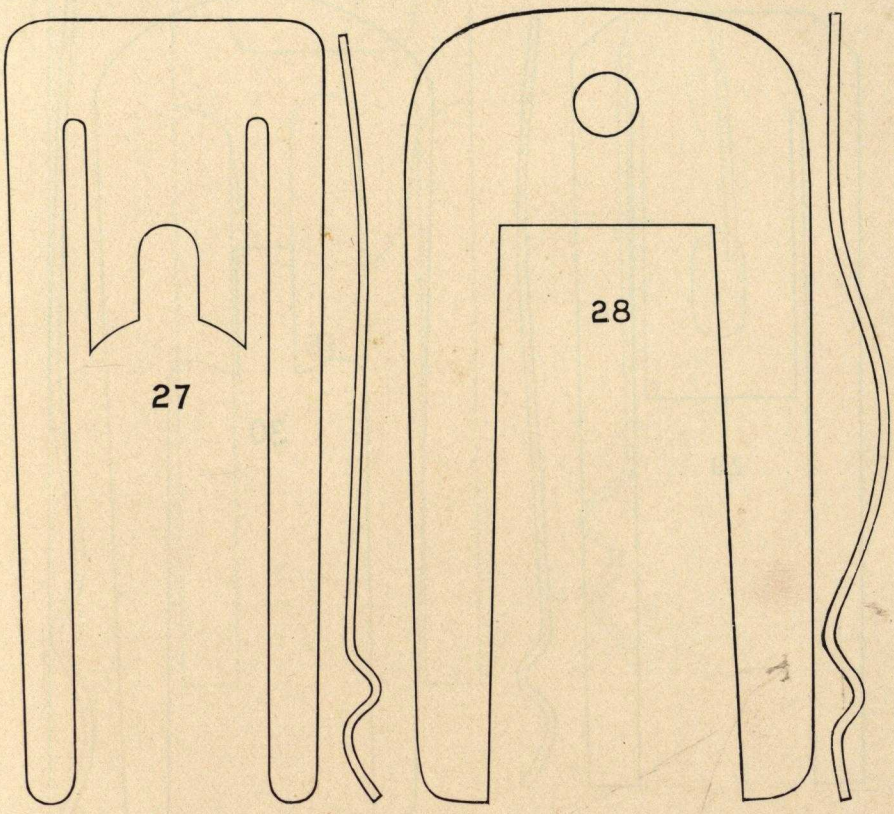
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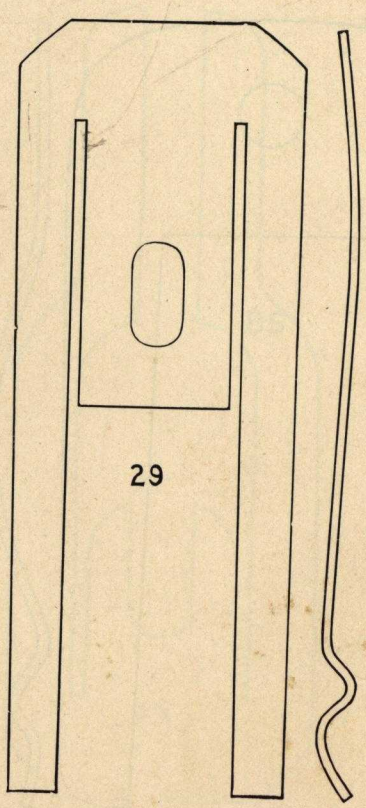
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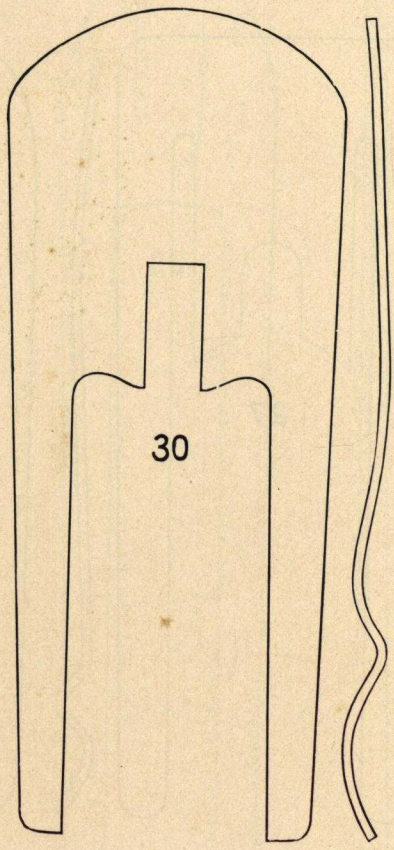
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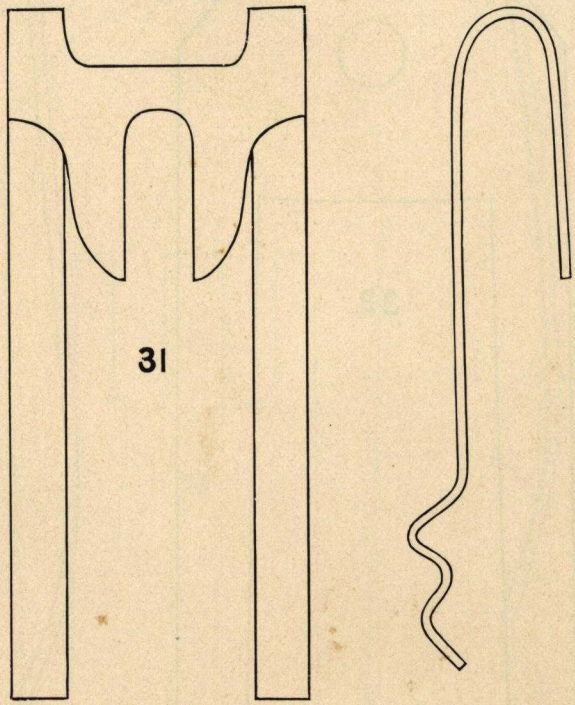
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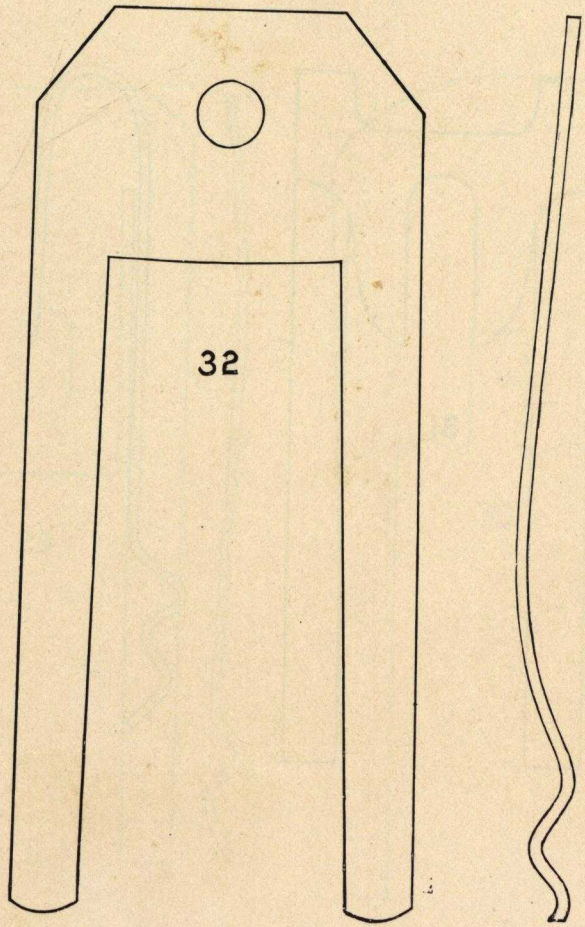
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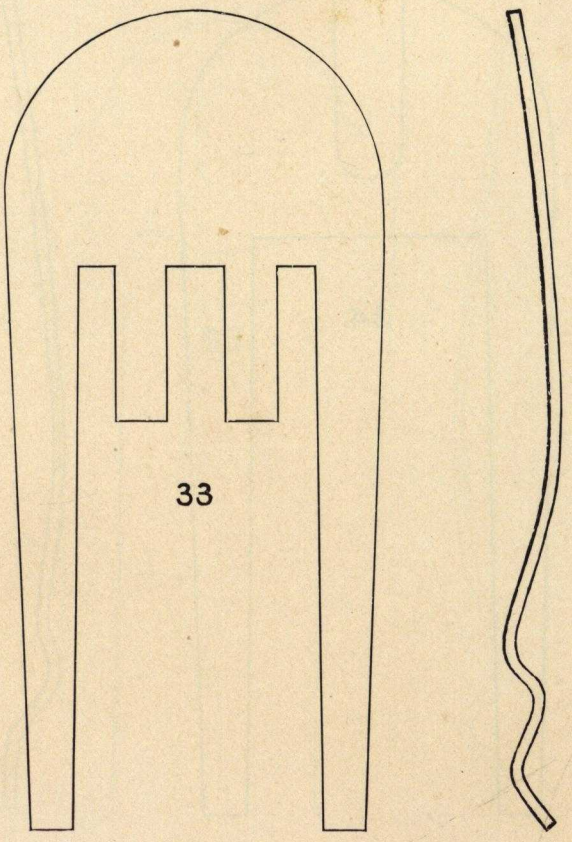
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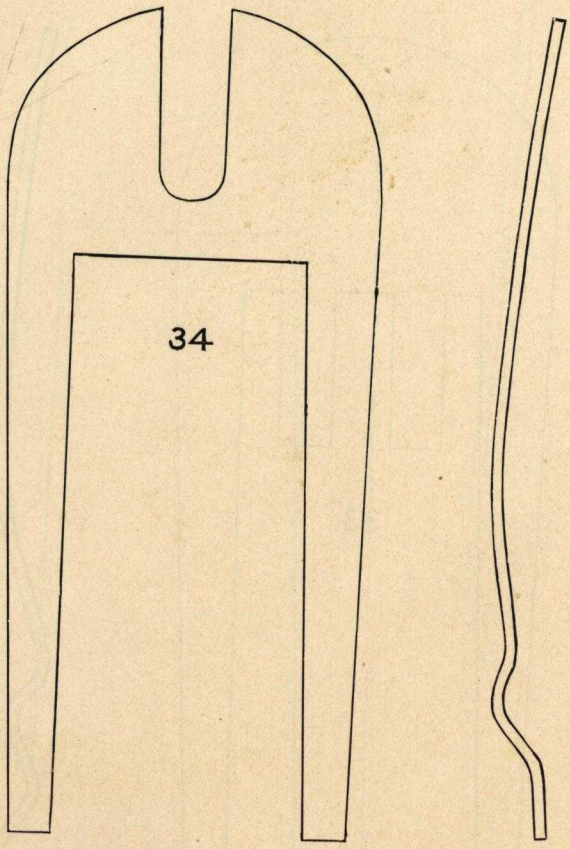
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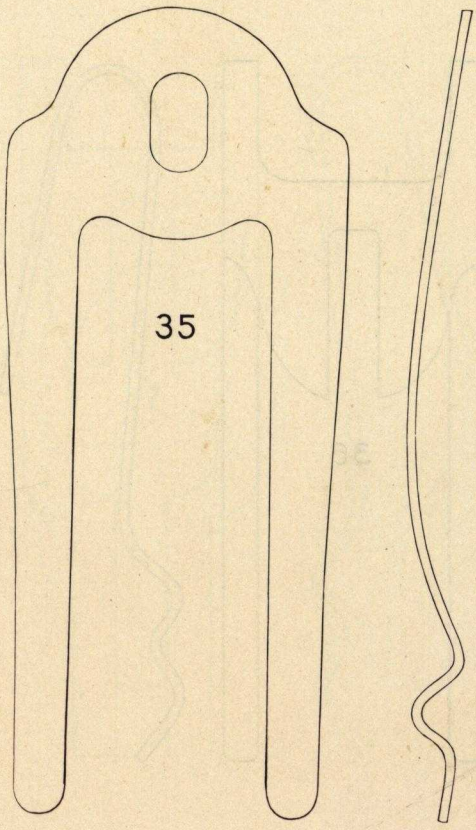
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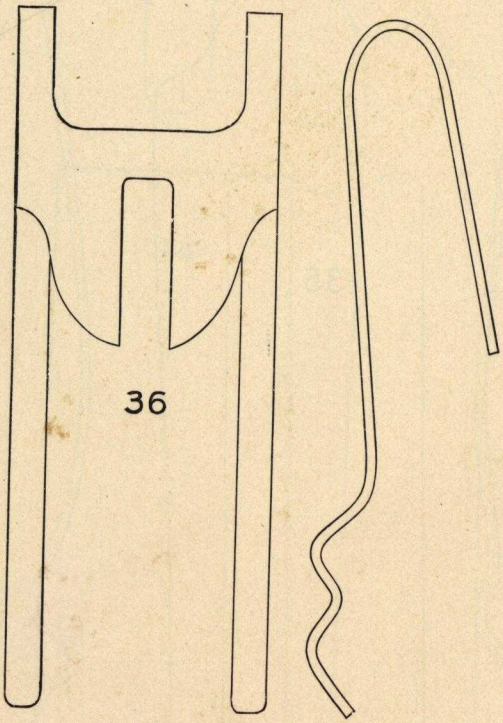
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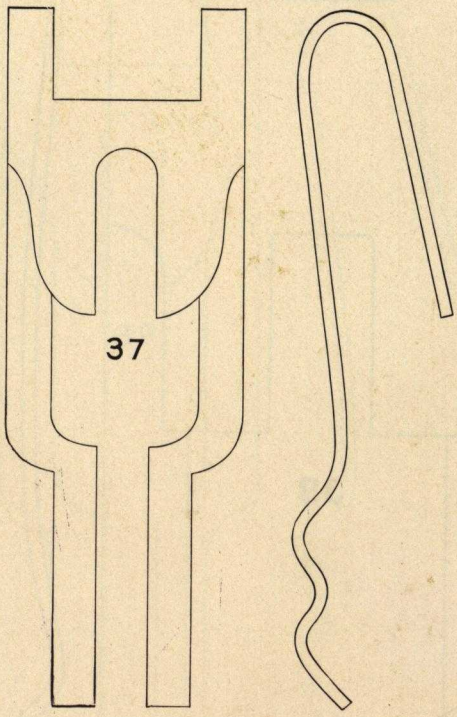
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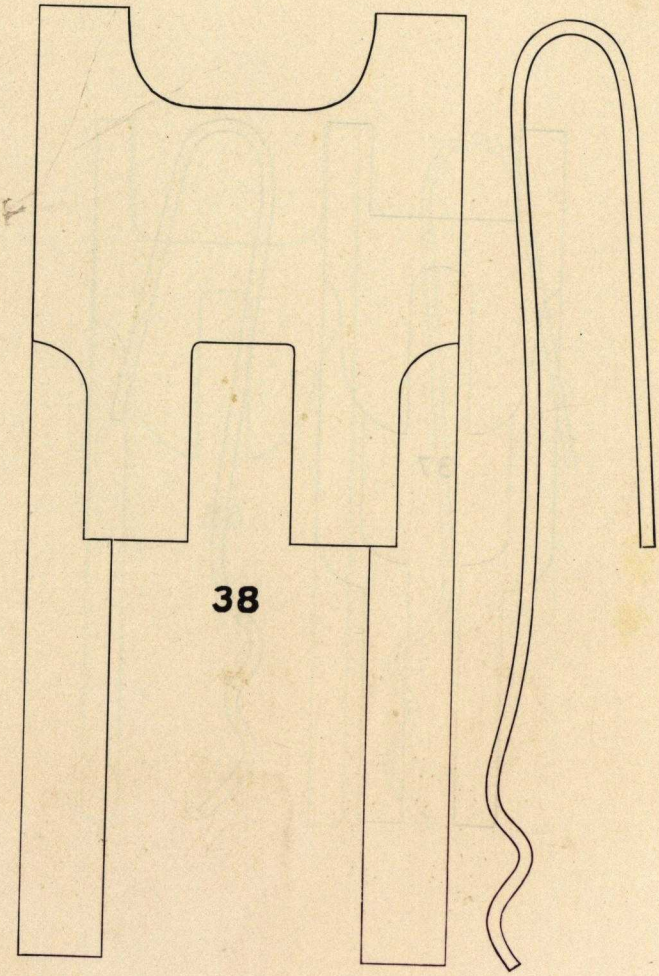
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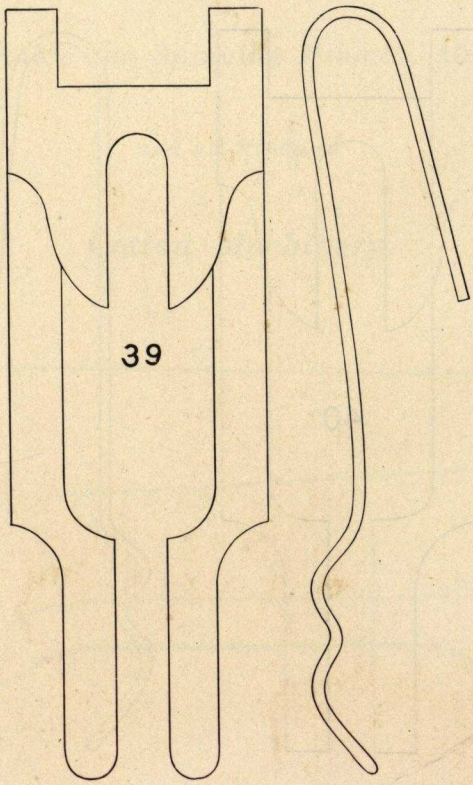
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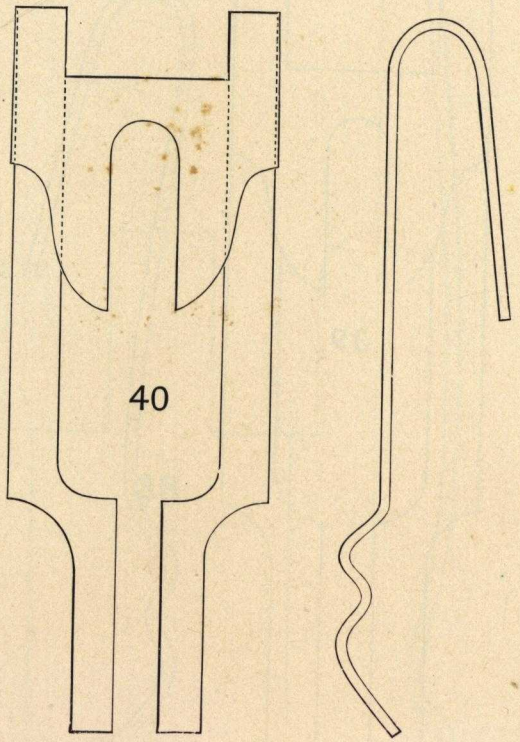
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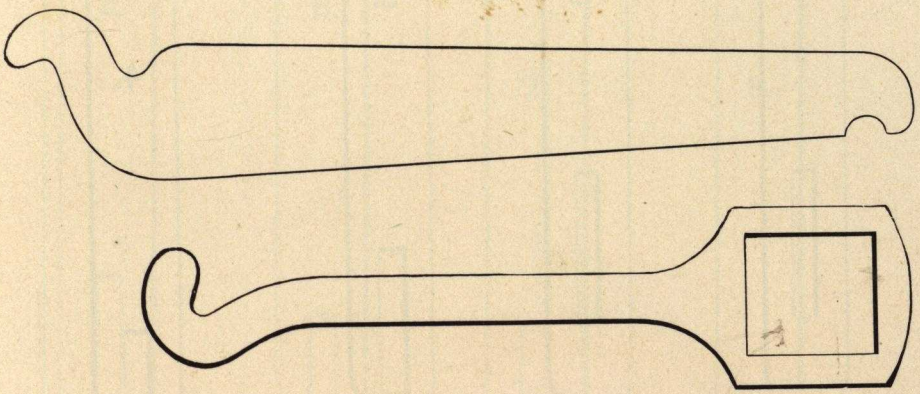
Stirrups and Levers

Of Every Description

Suitable for Spinning Frames, Mules

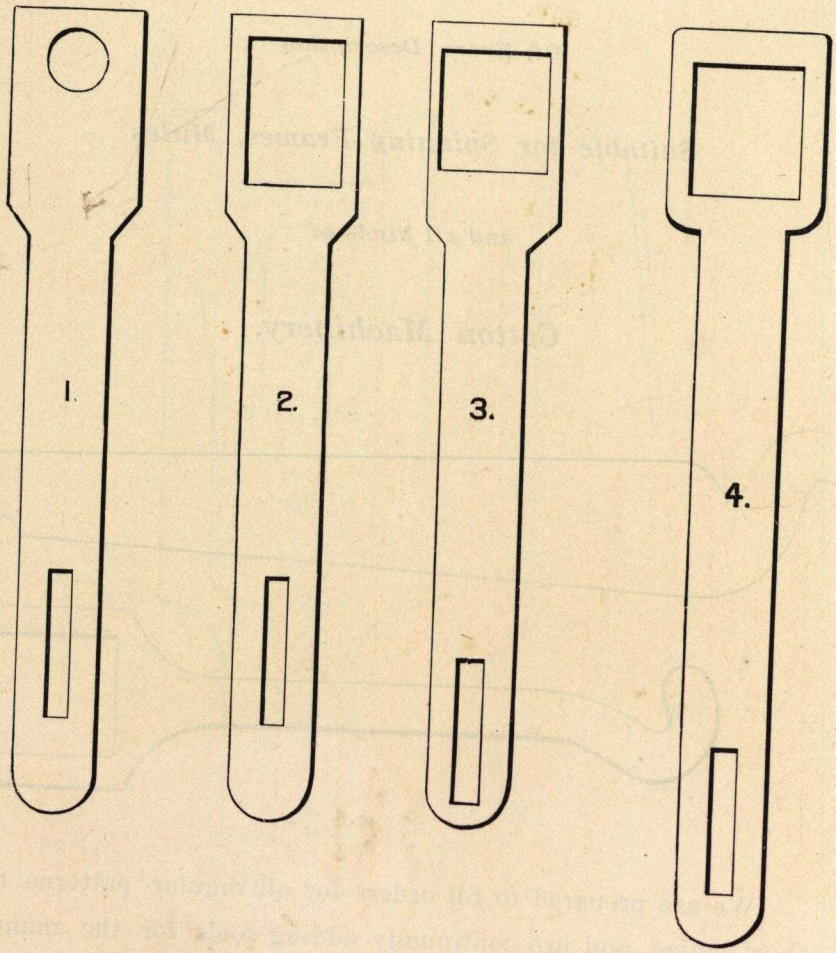
and all kinds of

Cotton Machinery.



We are prepared to fill orders for all regular patterns at short notice, and are continually adding tools for the manufacture of new special shapes and sizes.

Prices on Application.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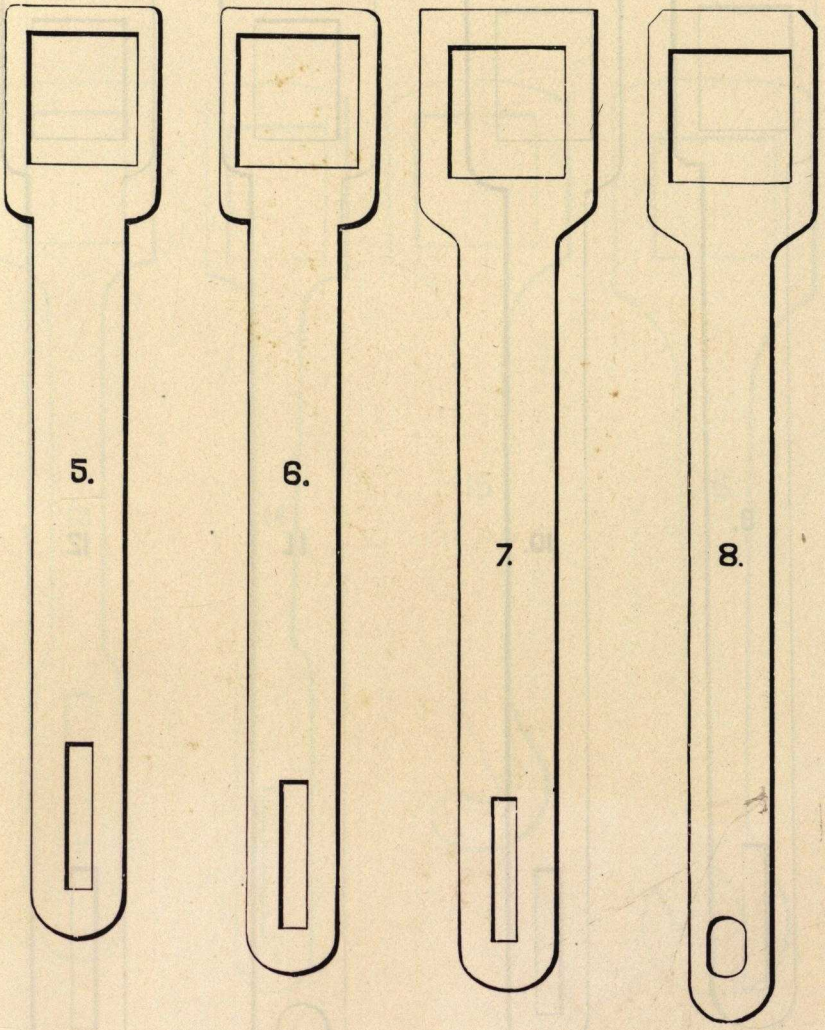
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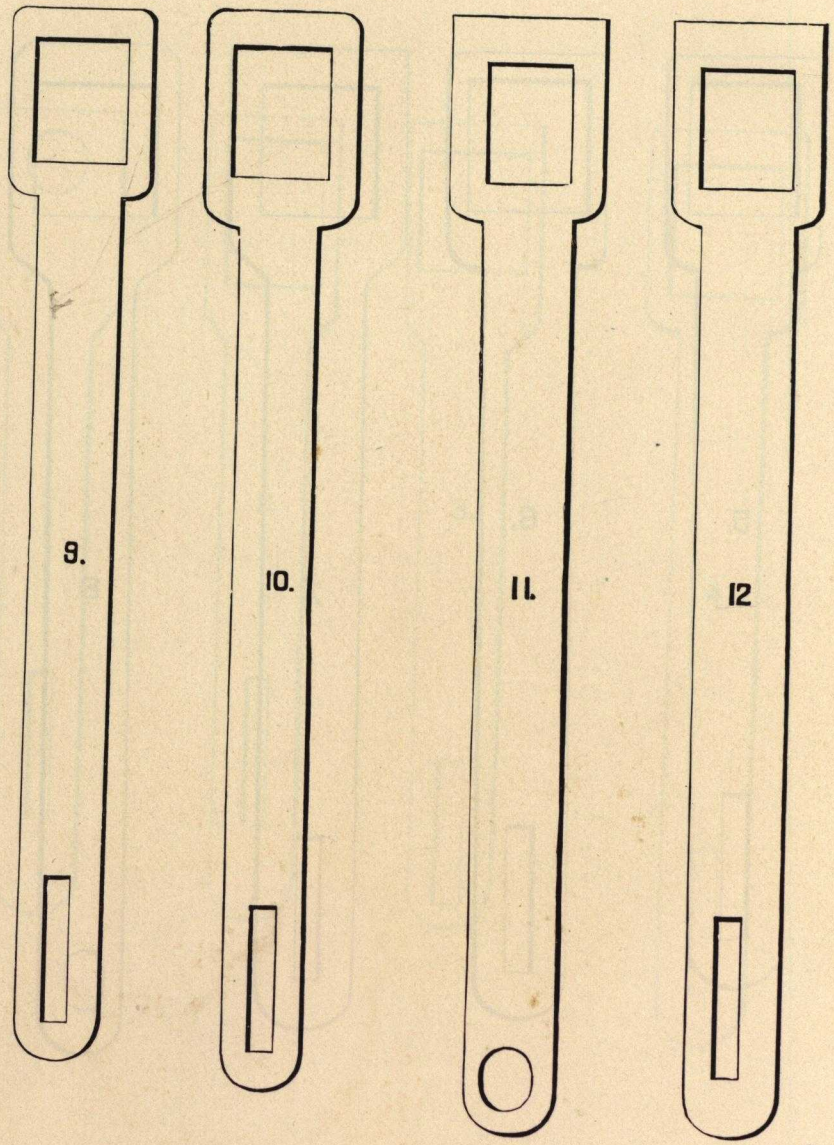
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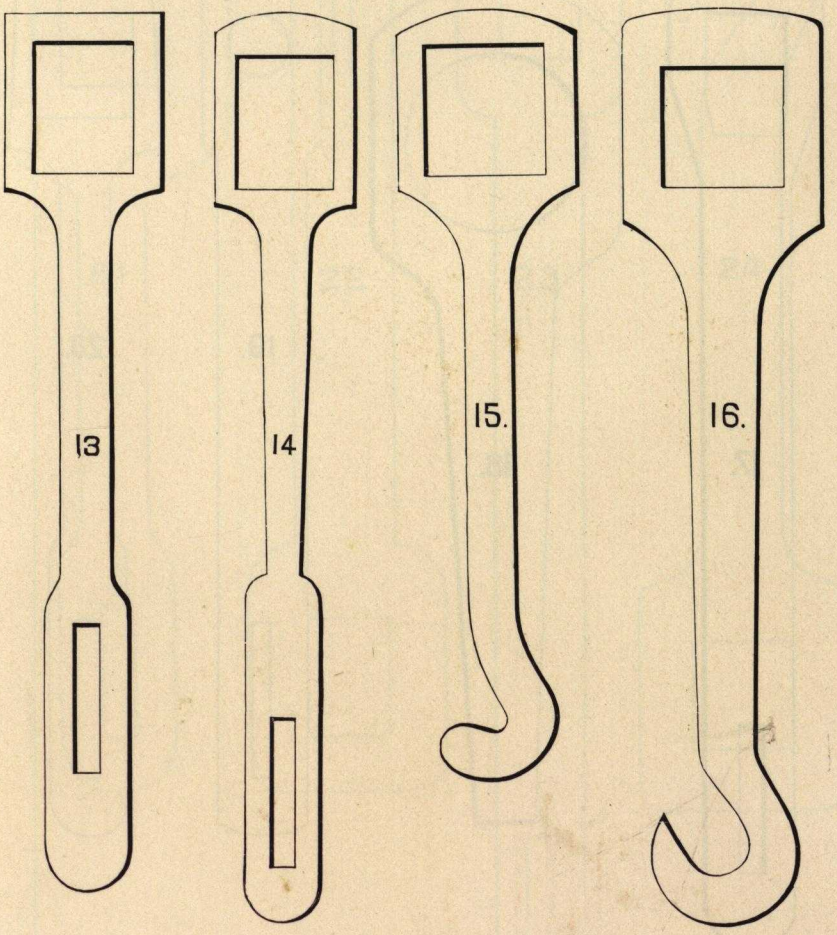
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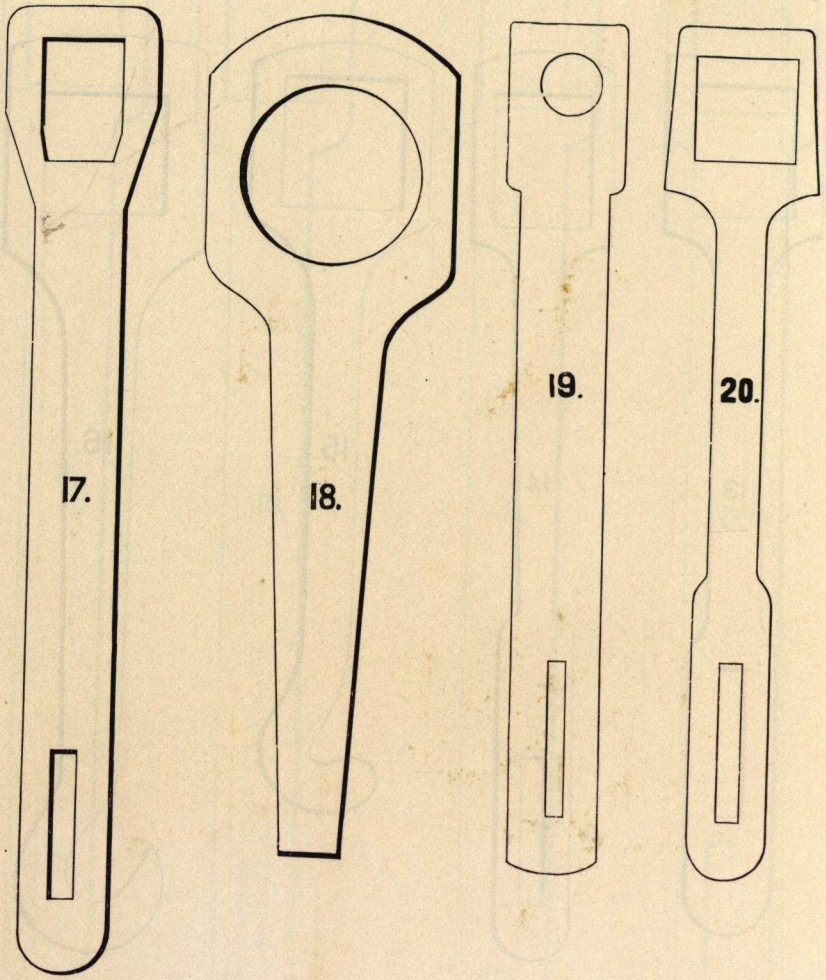
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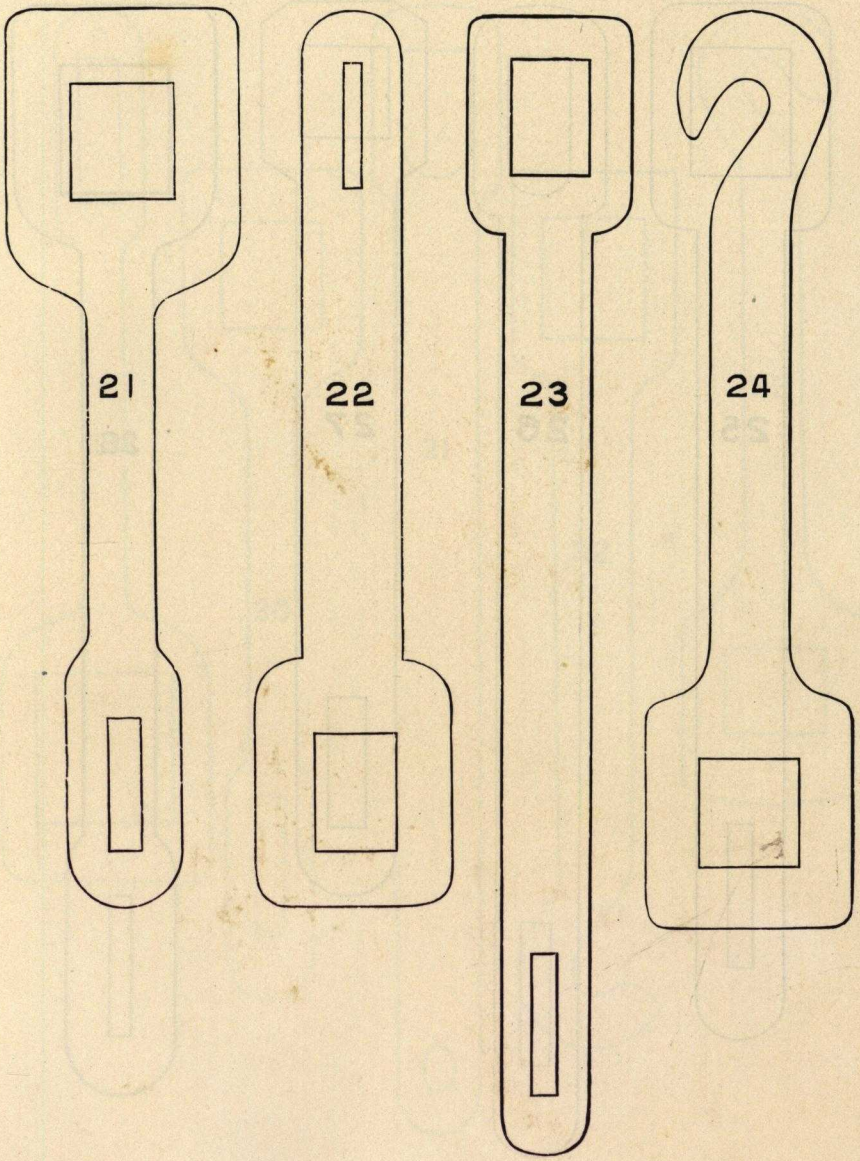
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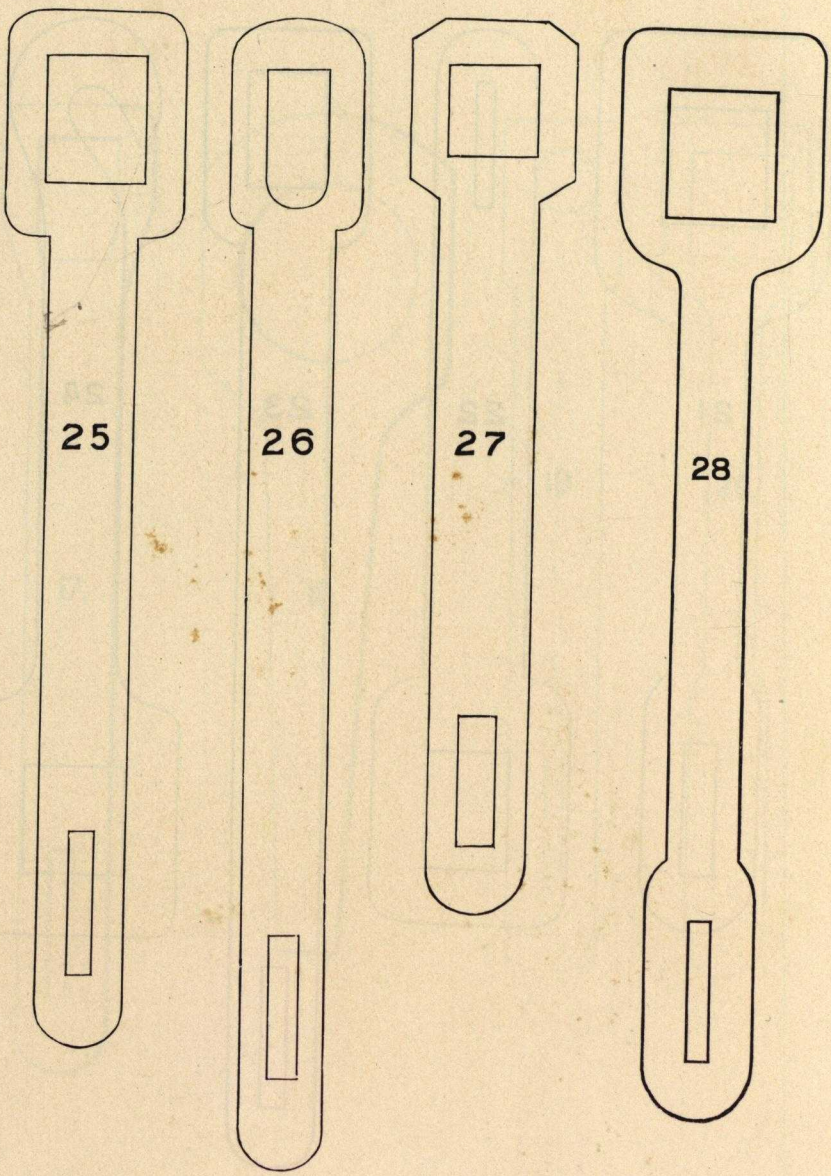
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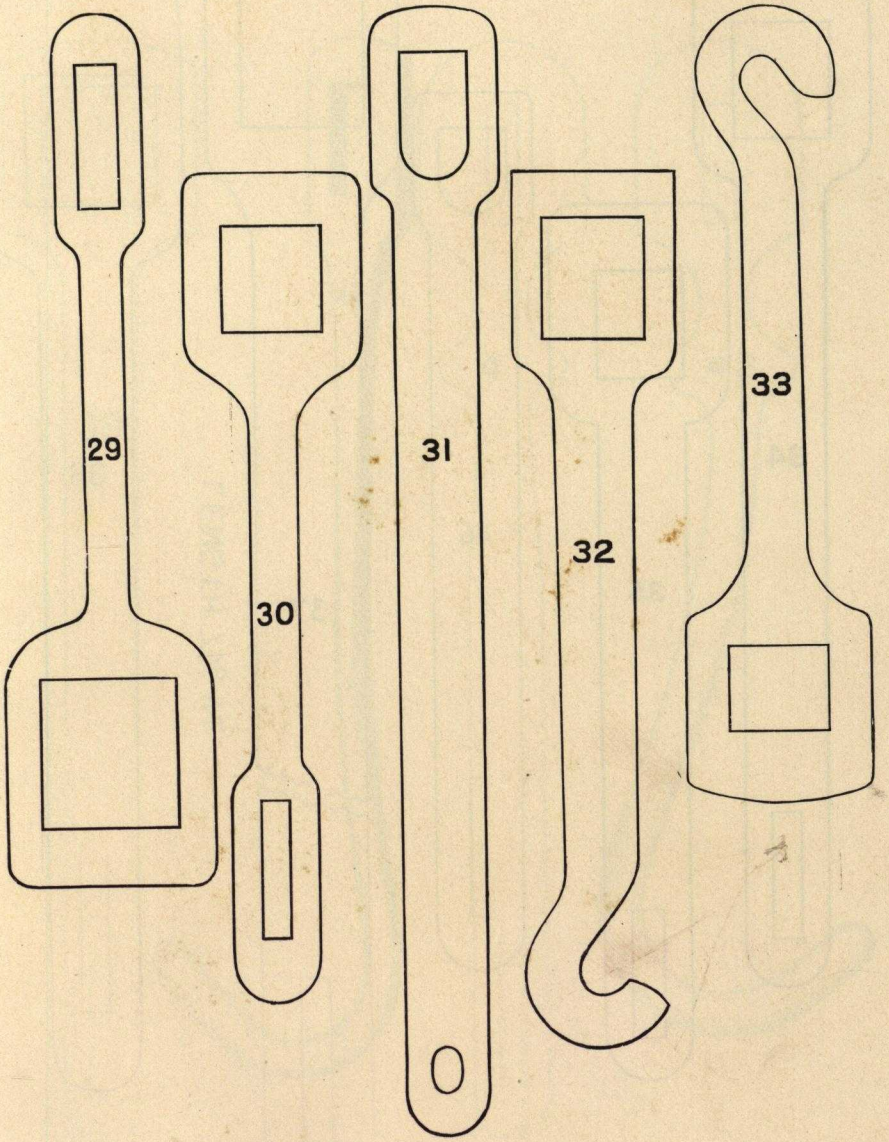
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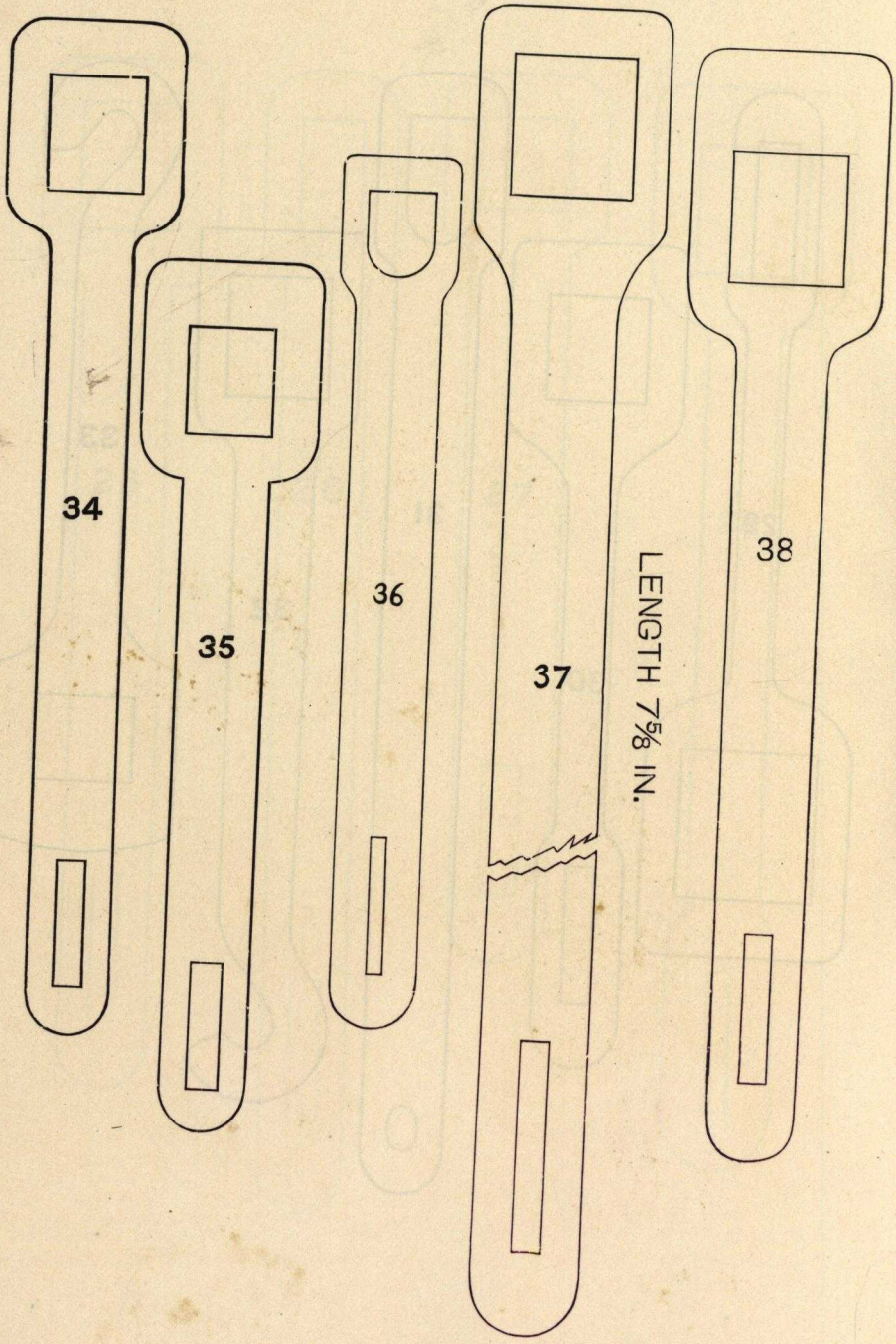
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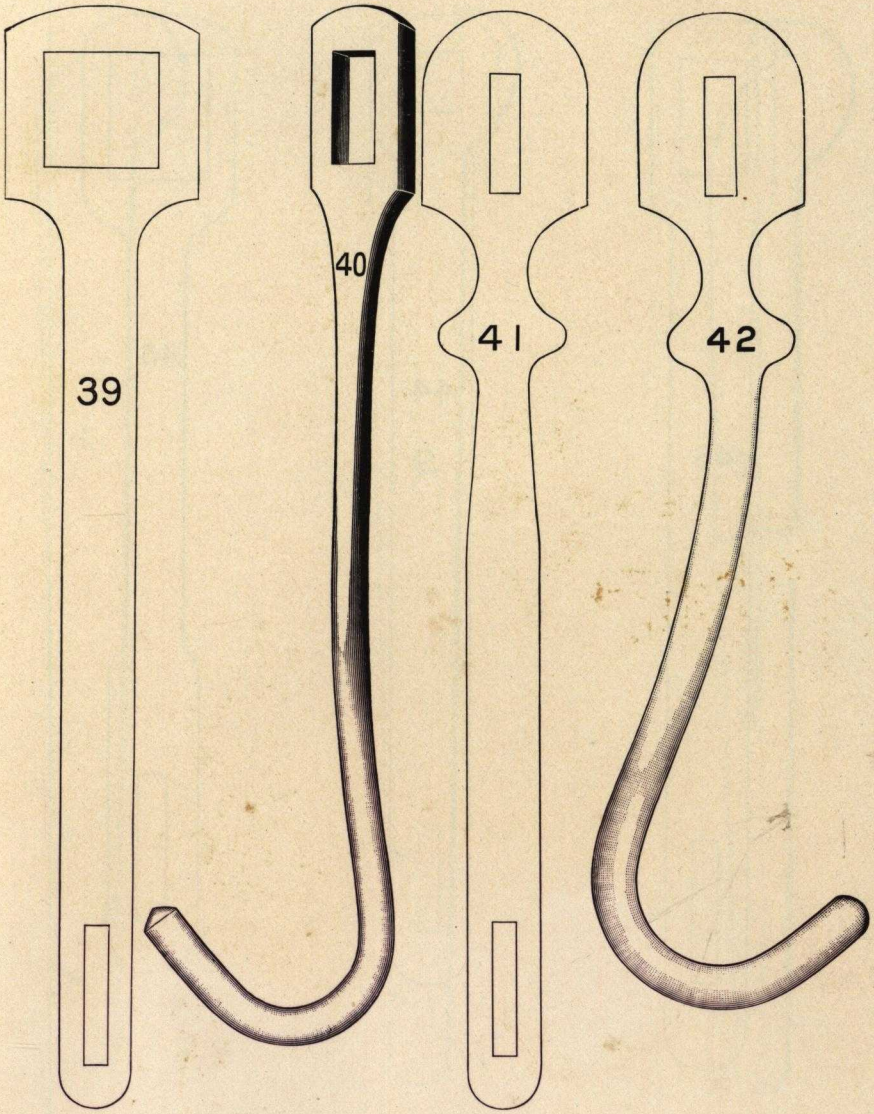
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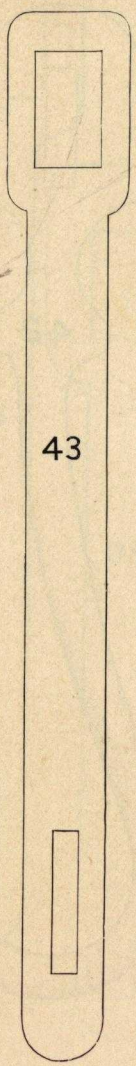
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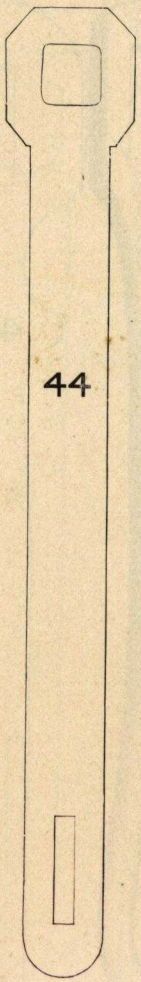
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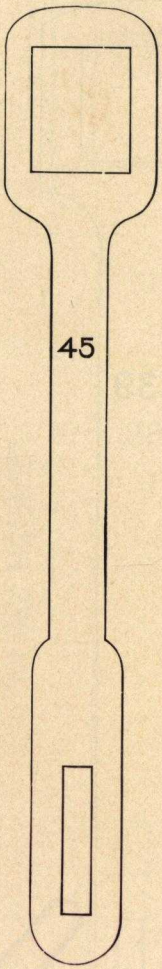
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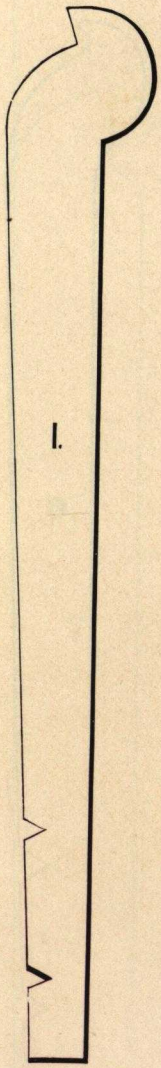
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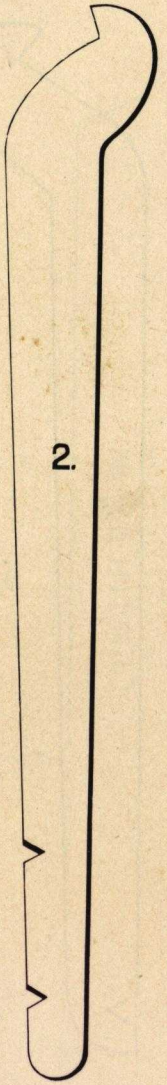
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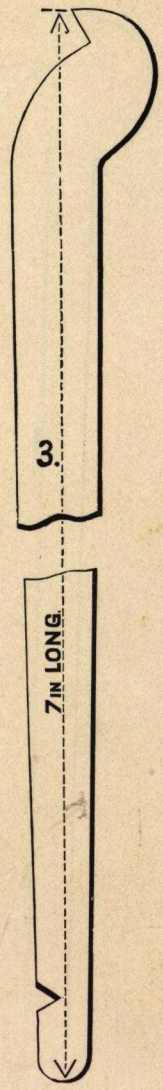
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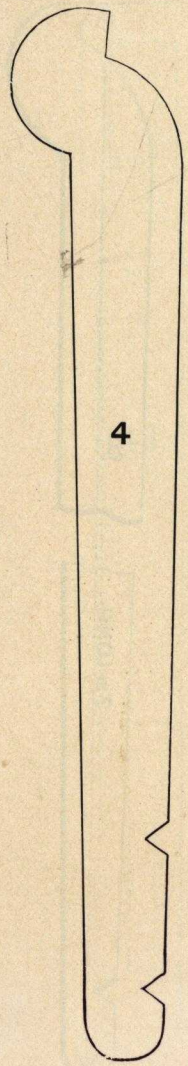
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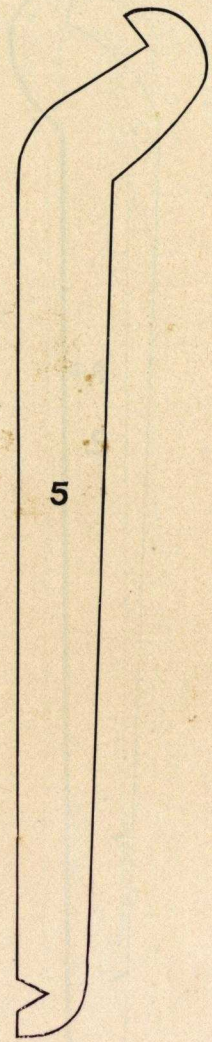
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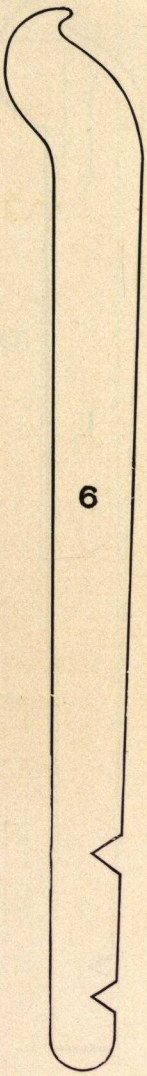
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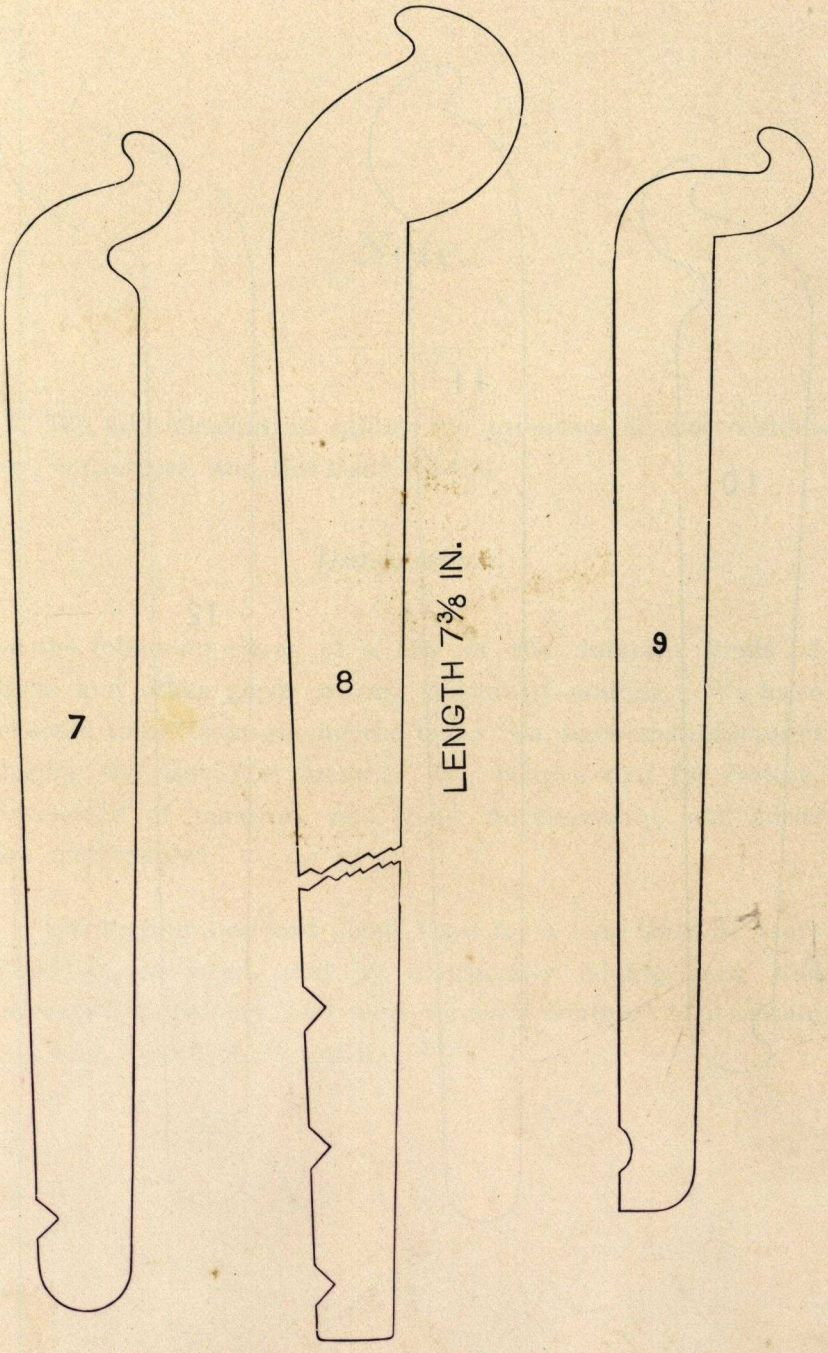
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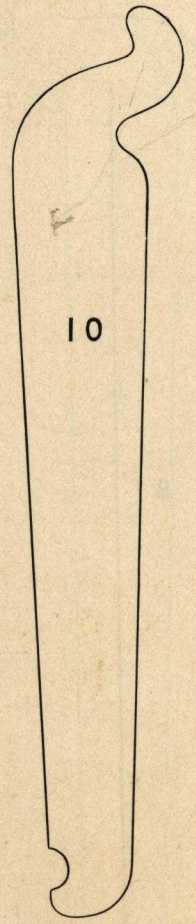
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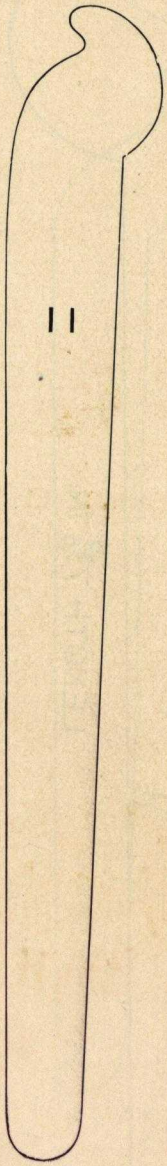
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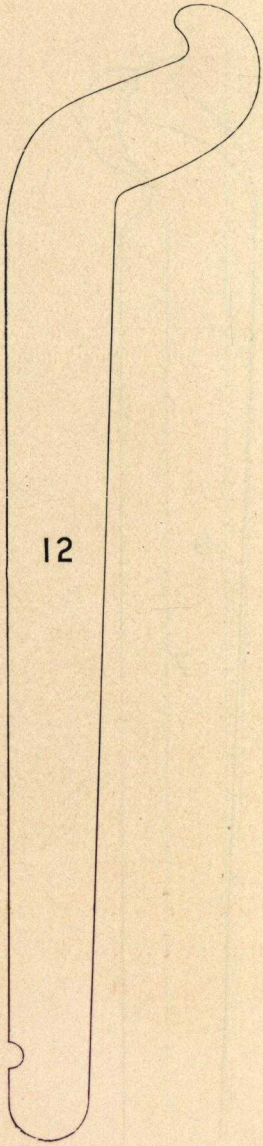

12

Note.

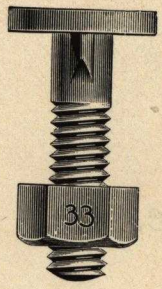
We take pleasure in calling the attention of our customers, consumers, and the trade, to the

Illustrations,

on the following pages, of a few of the different kinds of Bolts and other goods we are constantly making. We have selected these from among the many we have manufactured during the last few months. We believe that for variety, excellence of material, and good workmanship, our goods are unsurpassed.

Our regular standard goods have for a long term of years stood at the head, and by continually adding new and improved machinery and tools we shall continue to maintain our high standard of quality.

32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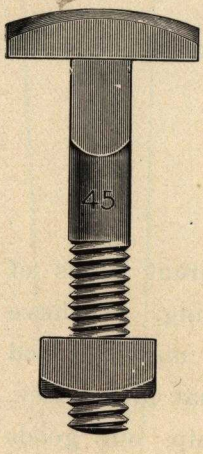
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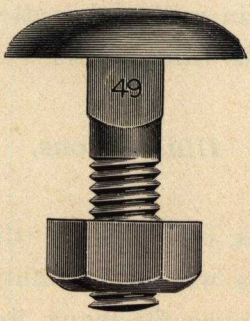
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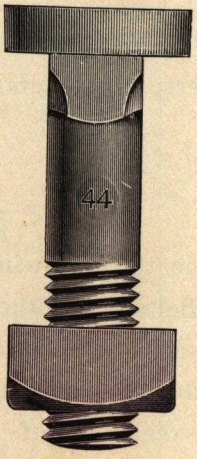
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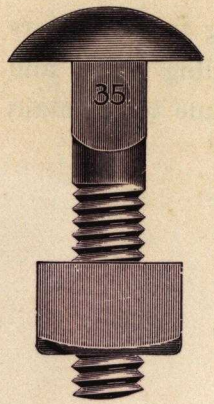
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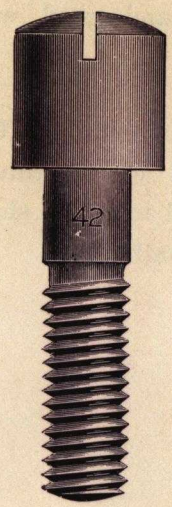
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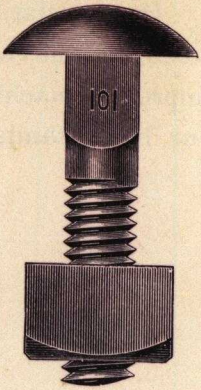
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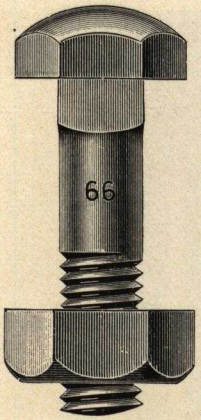
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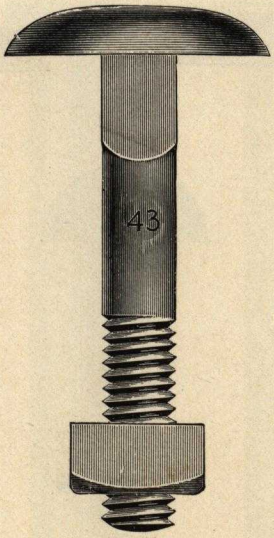
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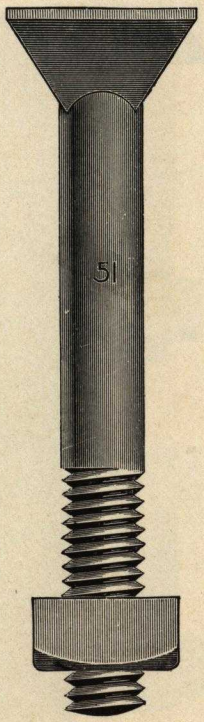
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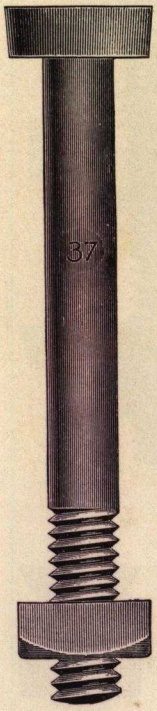
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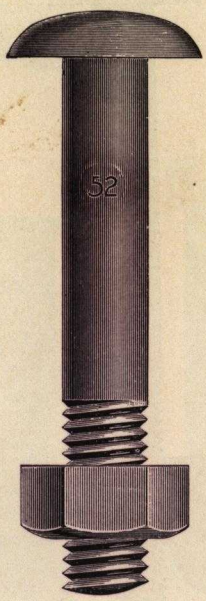
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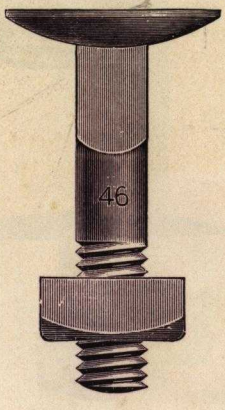
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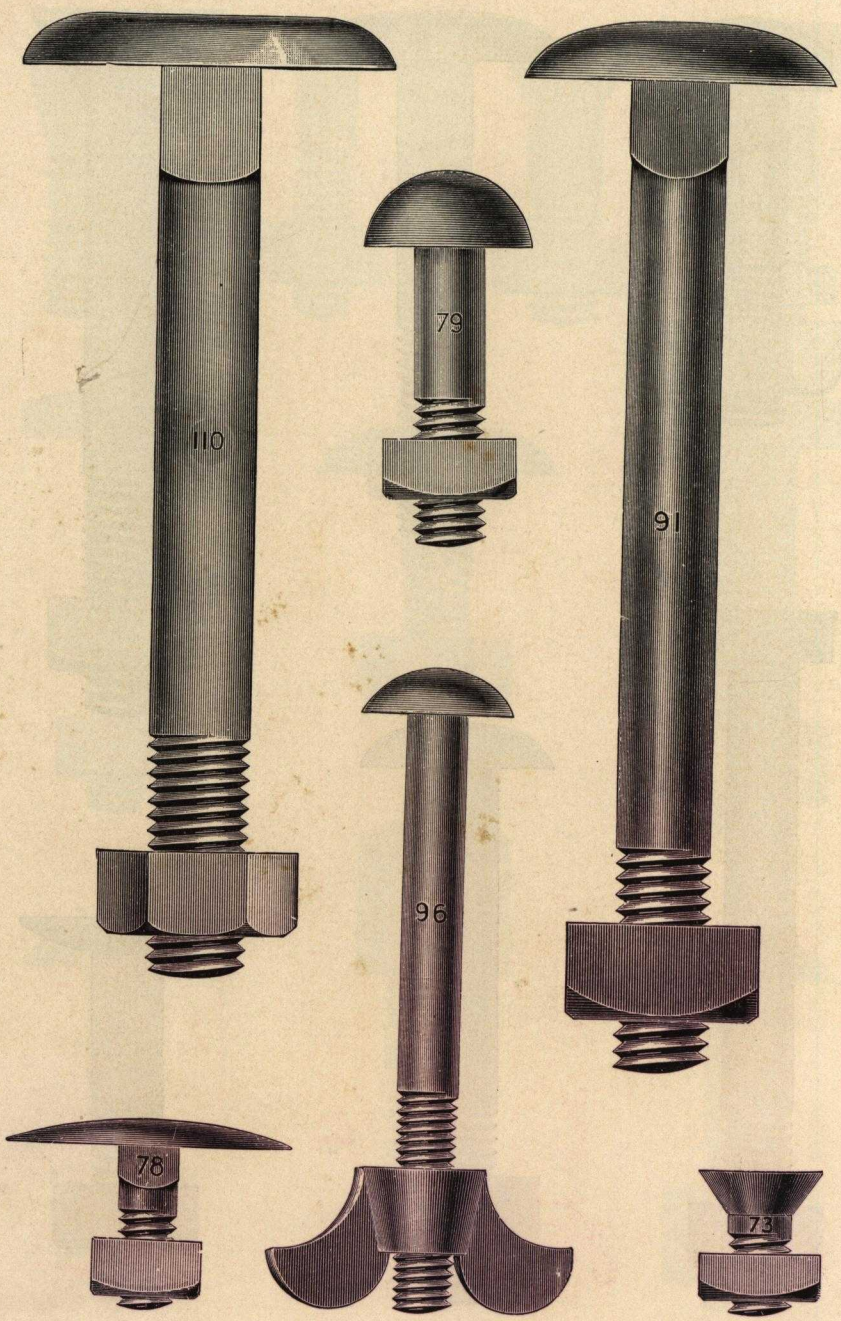
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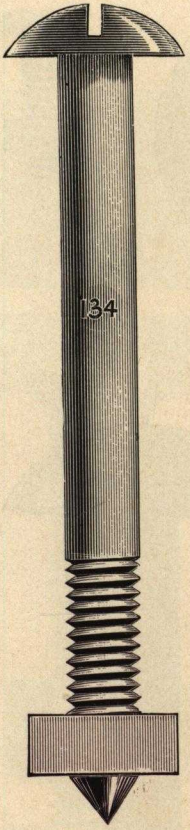
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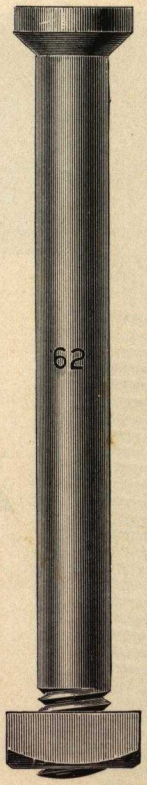
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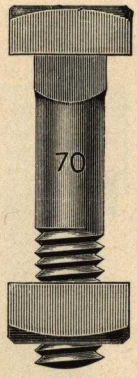
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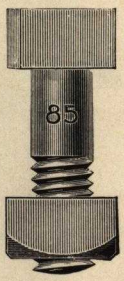
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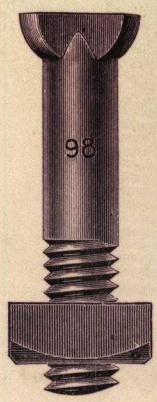
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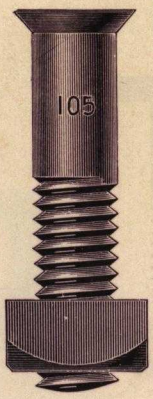
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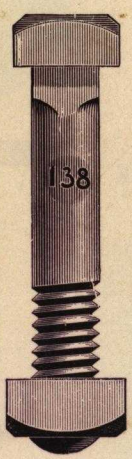
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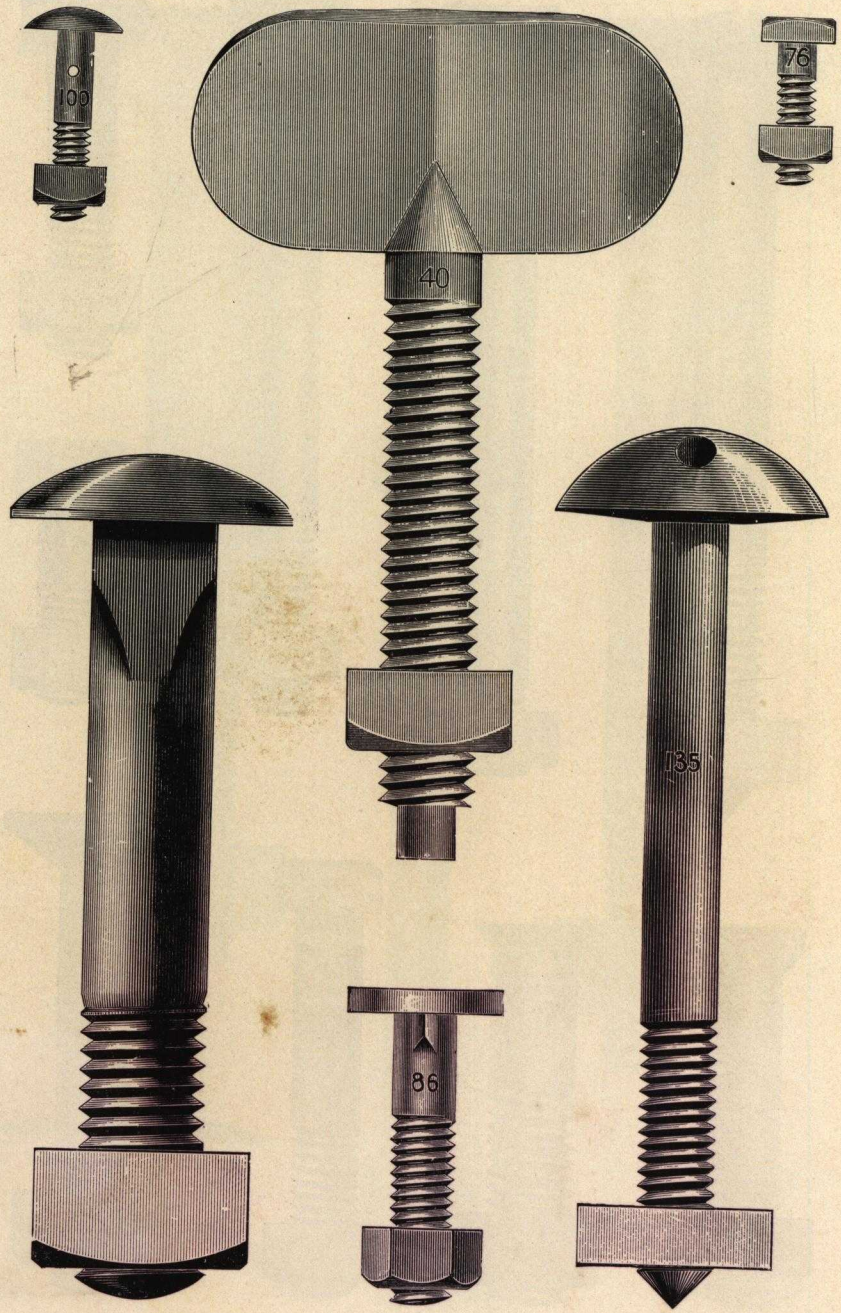
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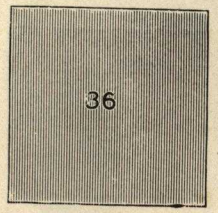
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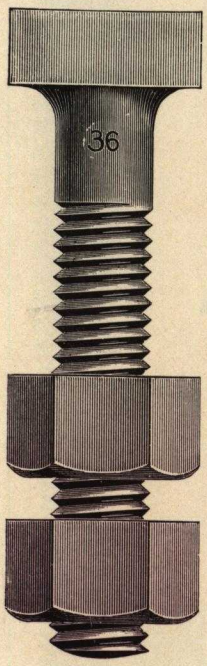
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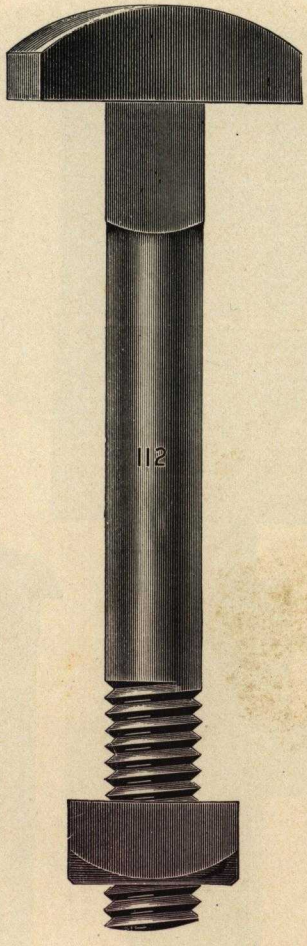
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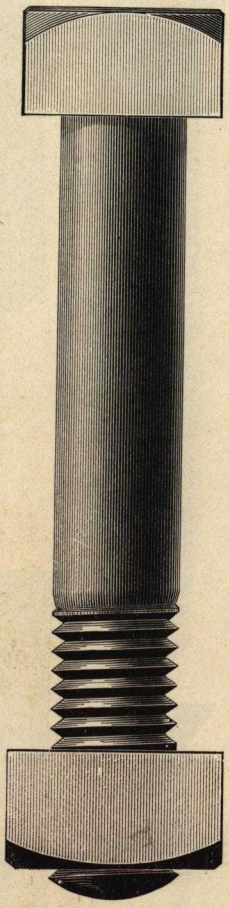

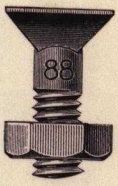
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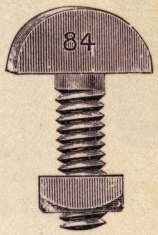
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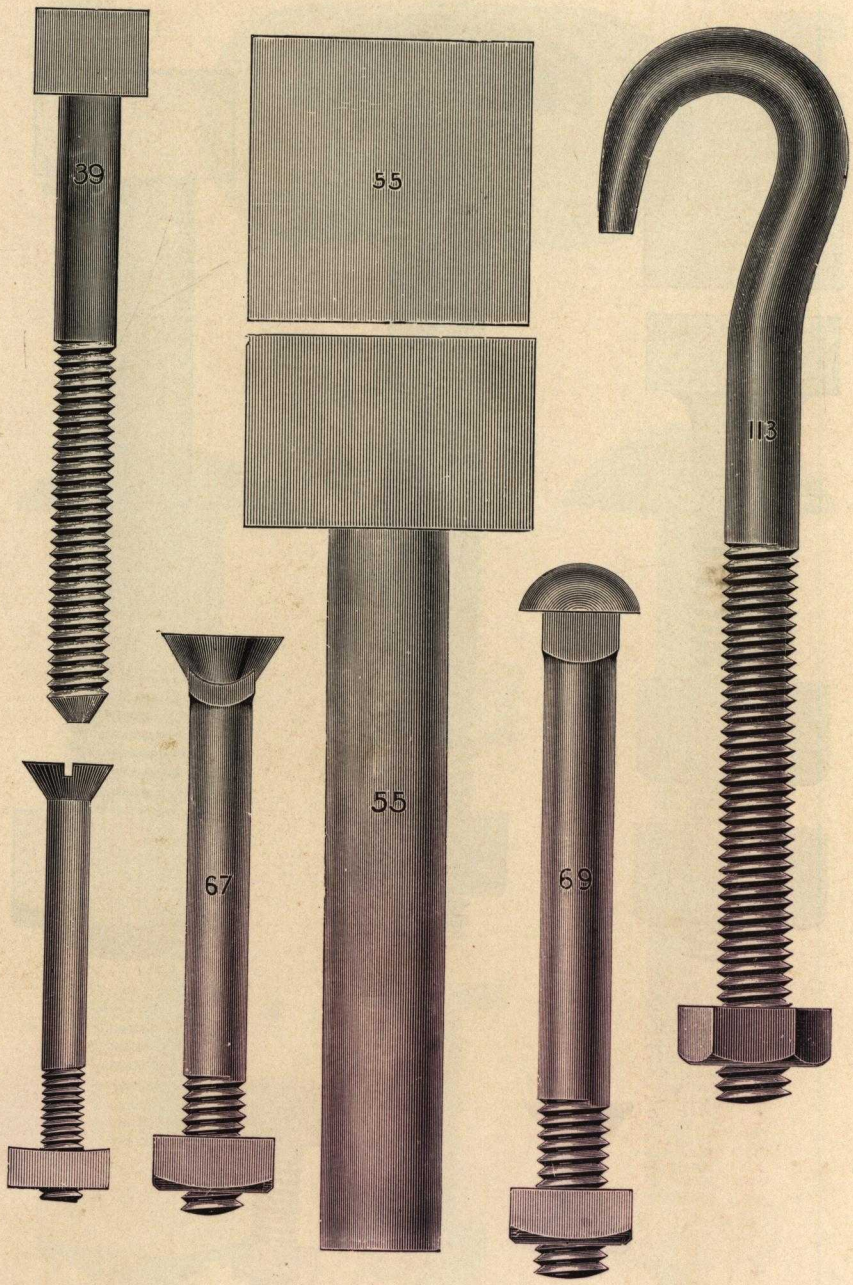
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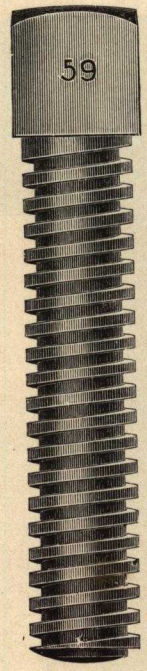
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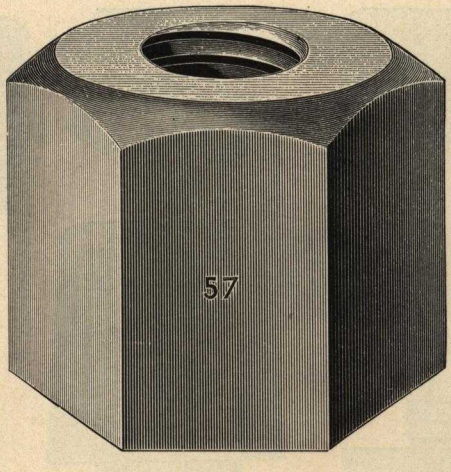
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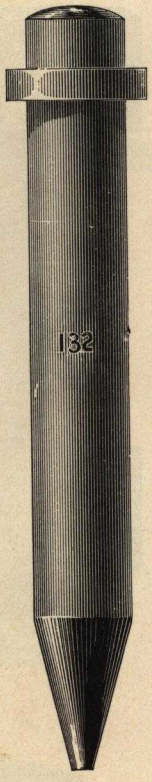
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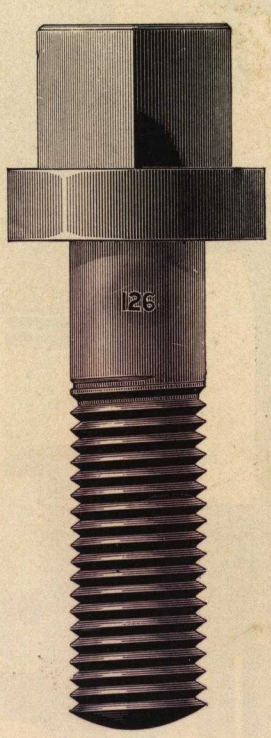
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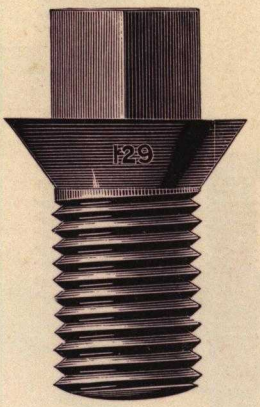
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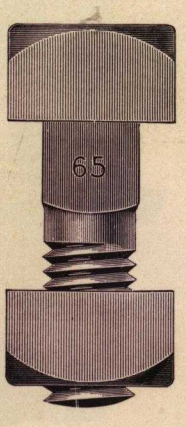
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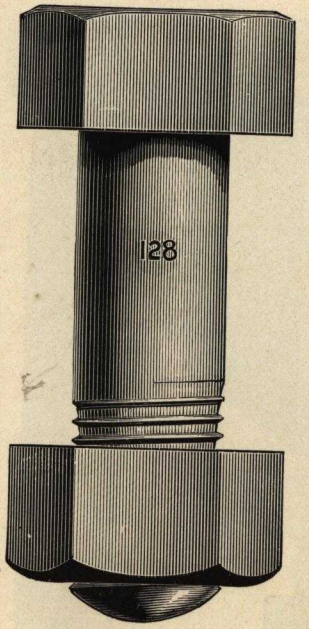
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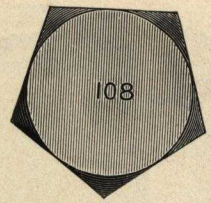
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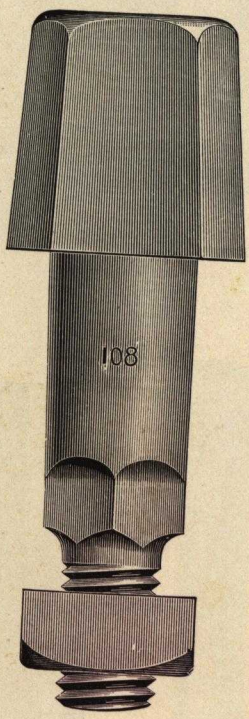
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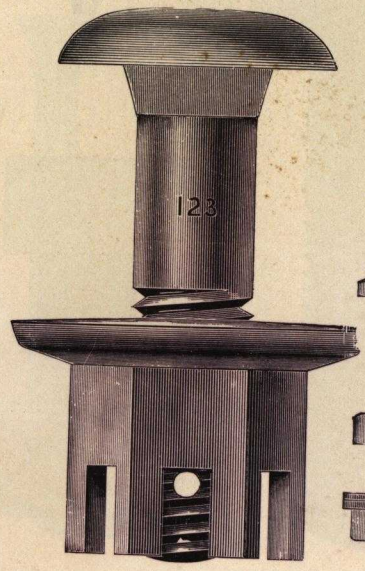
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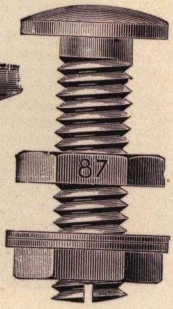
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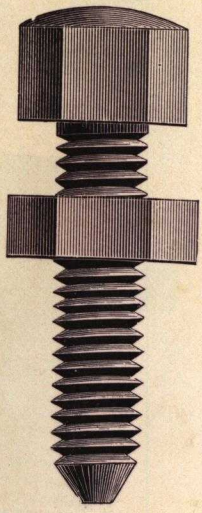

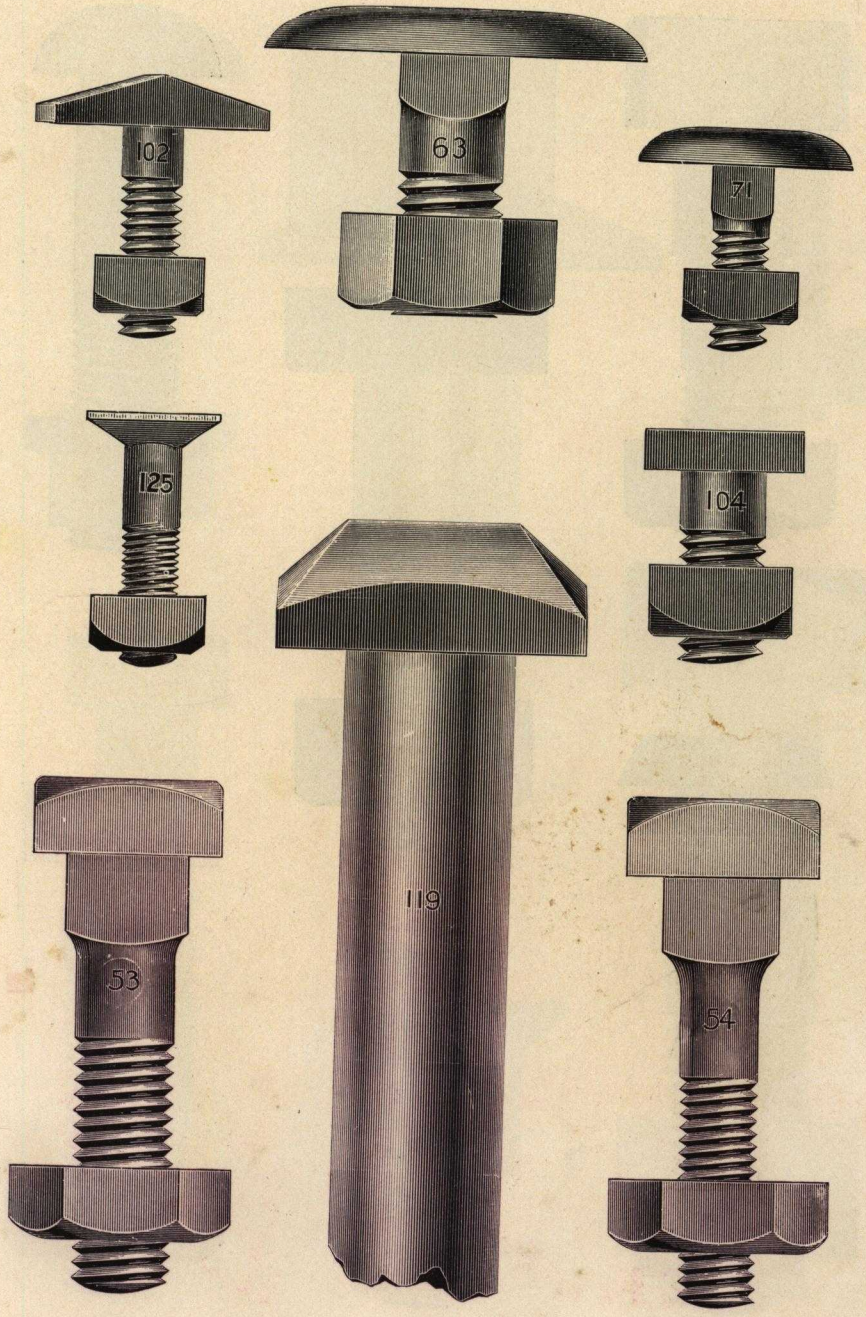
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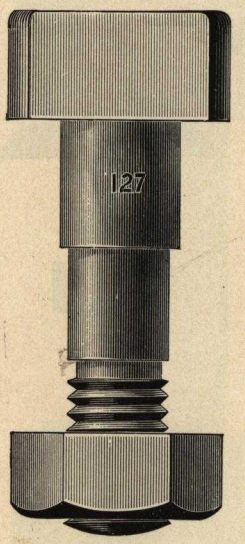
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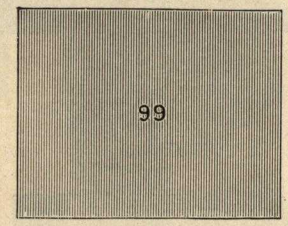
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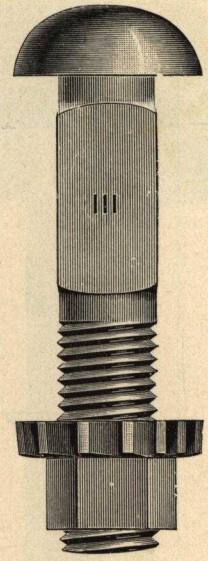
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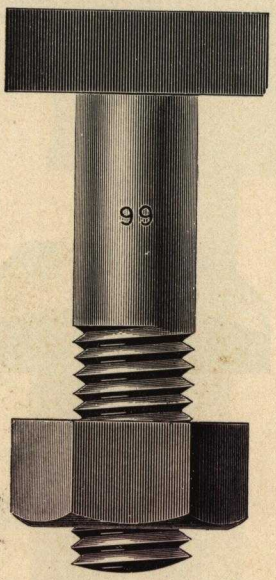
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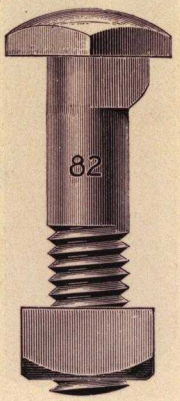
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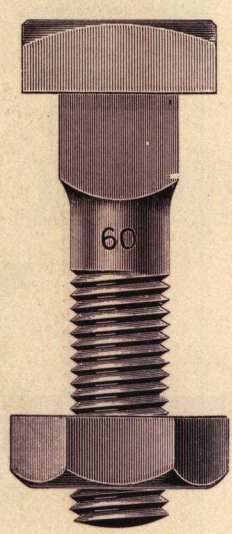
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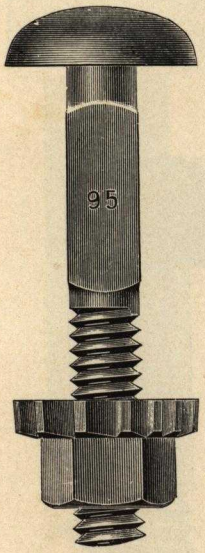
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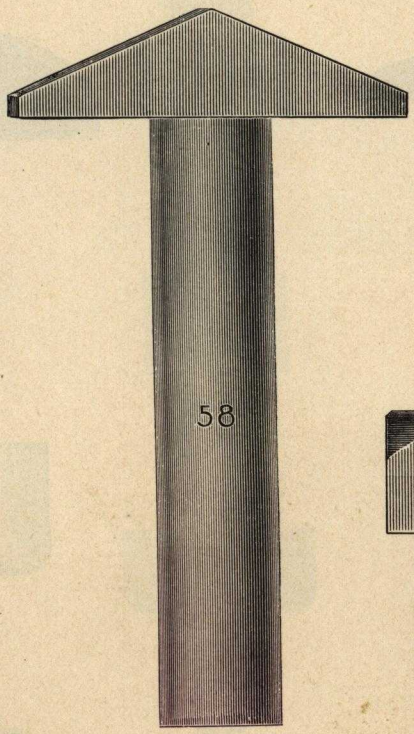
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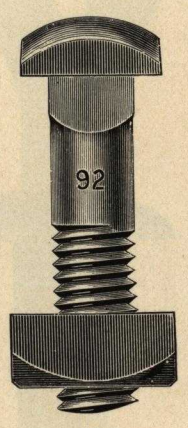
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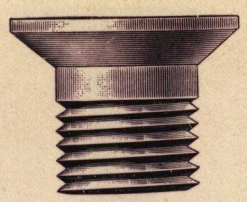

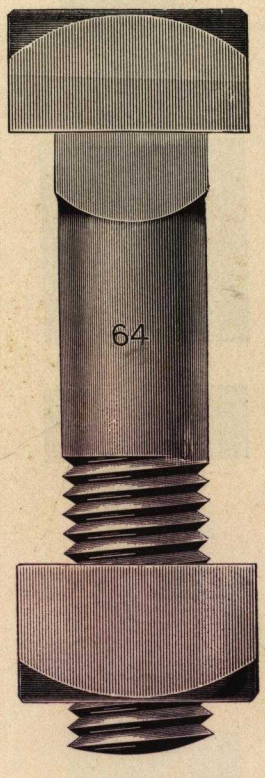
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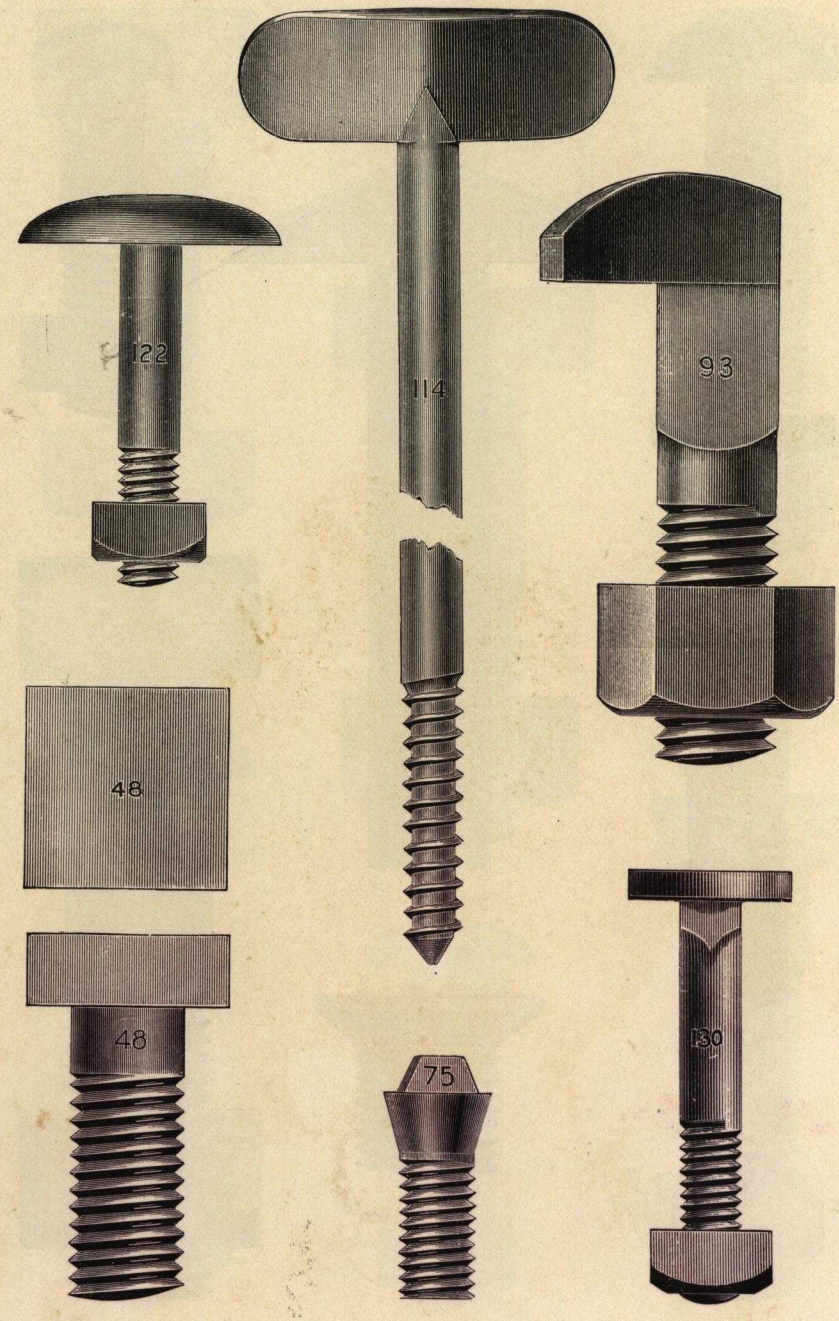
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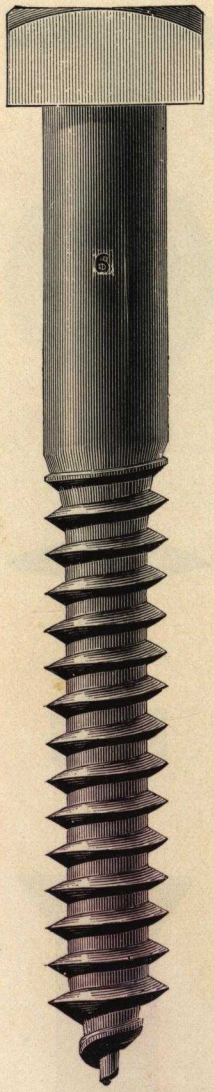
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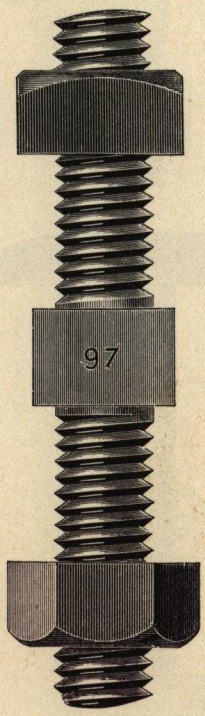
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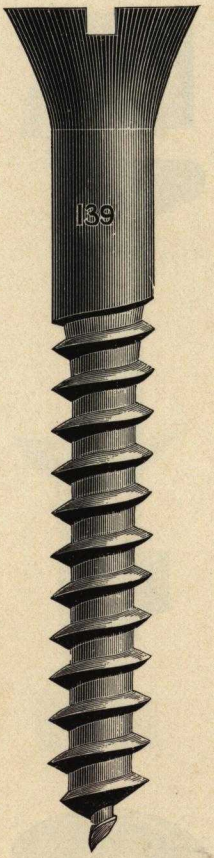
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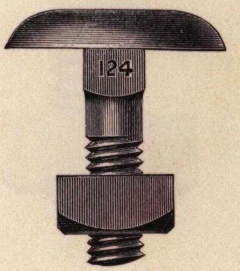
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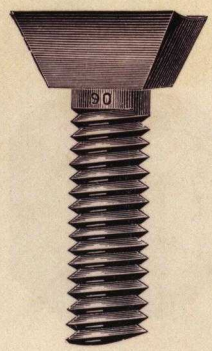
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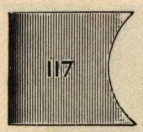
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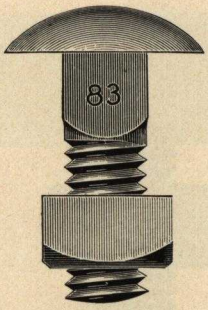
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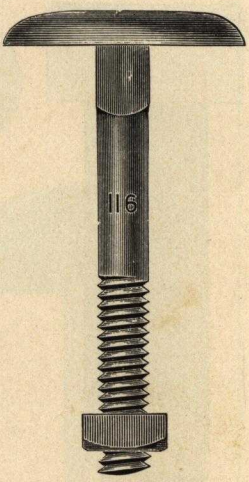
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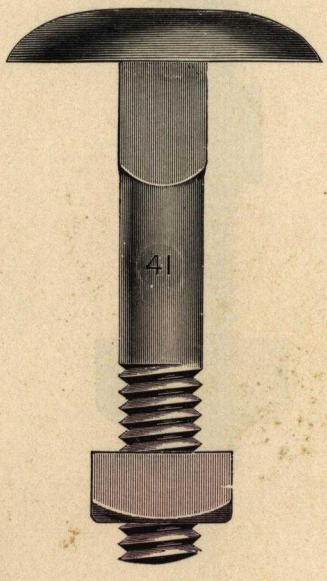
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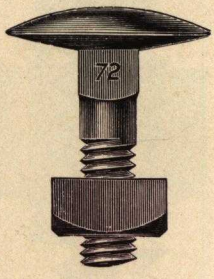
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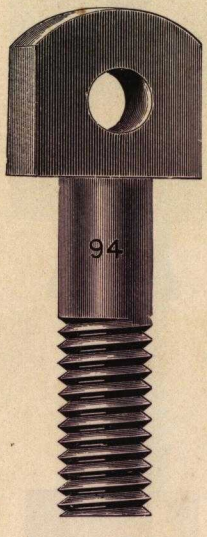
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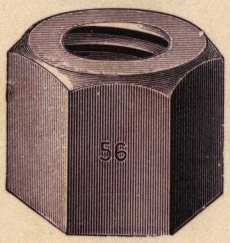
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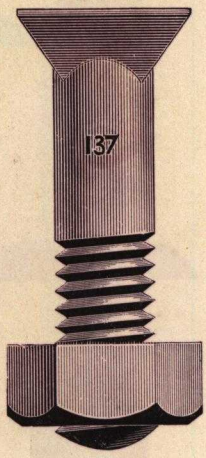
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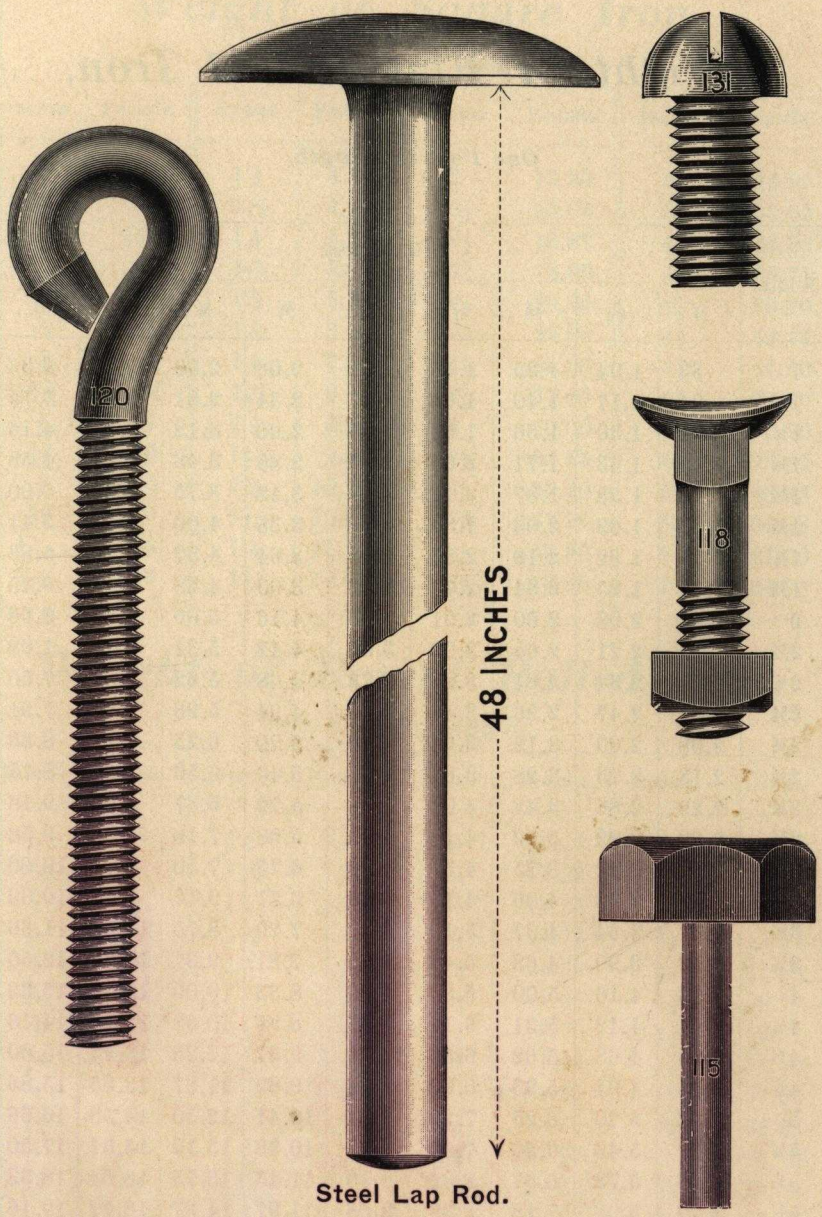

Steel Lap Rod.

Weight of Flat Rolled Iron,

One Foot in Length.

Width.	Thickness.								
	¼	5/16	⅜	7/16	½	⅝	¾	⅞	1
1	.83	1.04	1.25	1.45	1.66	2.08	2.50	2.91	3.33
1⅛	.94	1.17	1.40	1.64	1.87	2.34	2.81	3.28	3.75
1¼	1.04	1.30	1.56	1.82	2.08	2.60	3.12	3.64	4.16
1⅜	1.14	1.43	1.71	2.00	2.29	2.86	3.43	4.01	4.58
1½	1.25	1.56	1.87	2.18	2.50	3.12	3.75	4.37	5.00
1⅝	1.35	1.69	2.03	2.36	2.70	3.38	4.06	4.73	5.41
1¾	1.45	1.82	2.18	2.55	2.91	3.64	4.37	5.10	5.83
1⅞	1.56	1.95	2.34	2.73	3.12	3.90	4.68	5.46	6.25
2	1.66	2.08	2.50	2.91	3.33	4.16	5.00	5.83	6.66
2⅛	1.77	2.21	2.65	3.09	3.54	4.42	5.31	6.19	7.08
2¼	1.87	2.34	2.81	3.28	3.75	4.68	5.62	6.56	7.50
2⅜	1.97	2.47	2.96	3.46	3.95	4.94	5.93	6.92	7.91
2½	2.08	2.60	3.12	3.64	4.16	5.20	6.25	7.29	8.33
2⅝	2.18	2.73	3.28	3.82	4.37	5.46	6.56	7.65	8.75
2¾	2.29	2.86	3.43	4.01	4.58	5.72	6.87	8.02	9.16
2⅞	2.39	2.99	3.59	4.19	4.79	5.98	7.18	8.38	9.58
3	2.50	3.12	3.75	4.37	5.00	6.25	7.50	8.75	10.00
3¼	2.70	3.38	4.06	4.73	5.41	6.77	9.12	9.47	10.83
3½	2.91	3.64	4.37	5.10	5.83	7.29	8.75	10.20	11.66
3¾	3.12	3.90	4.68	5.46	6.25	7.81	9.37	10.93	12.50
4	3.33	4.16	5.00	5.83	6.66	8.33	10.00	11.66	13.33
4¼	3.54	4.42	5.31	6.19	7.08	8.85	10.62	12.39	14.16
4½	3.75	4.68	5.62	6.56	7.50	9.37	11.25	13.12	15.00
4¾	3.95	4.94	5.93	6.92	7.91	9.89	11.87	13.85	15.83
5	4.17	5.20	6.25	7.29	8.33	10.41	12.50	14.58	16.66
5¼	4.37	5.46	6.56	7.65	8.75	10.93	13.12	15.31	17.50
5½	4.58	5.72	6.87	8.02	9.16	11.45	13.75	16.04	18.33
5¾	4.79	5.98	7.18	8.38	9.58	11.97	14.37	16.77	19.16
6	5.00	6.26	7.50	8.75	10.00	12.50	15.00	17.50	20.00

Weight of Square Iron,

One Foot in Length.

Inches.	Pounds.	Inches.	Pounds.	Inches.	Pounds.	Inches.	Pounds.
$\frac{1}{4}$	.21	$1\frac{1}{8}$	4.21	2	13.33	$3\frac{3}{4}$	46.87
$\frac{5}{16}$	.32	$1\frac{3}{16}$	4.70	$2\frac{1}{8}$	15.05	$3\frac{7}{8}$	50.05
$\frac{3}{8}$	.47	$1\frac{1}{4}$	5.20	$2\frac{1}{4}$	16.87	4	53.33
$\frac{7}{16}$	.64	$1\frac{5}{16}$	5.74	$2\frac{3}{8}$	18.80	$4\frac{1}{8}$	56.71
$\frac{1}{2}$	.83	$1\frac{3}{8}$	6.30	$2\frac{1}{2}$	20.80	$4\frac{1}{4}$	60.20
$\frac{9}{16}$	1.05	$1\frac{7}{16}$	6.88	$2\frac{5}{8}$	22.96	$4\frac{3}{8}$	63.80
$\frac{5}{8}$	1.30	$1\frac{1}{2}$	7.50	$2\frac{3}{4}$	25.20	$4\frac{1}{2}$	67.50
$\frac{11}{16}$	1.57	$1\frac{9}{16}$	8.15	$2\frac{7}{8}$	27.55	$4\frac{5}{8}$	71.30
$\frac{3}{4}$	1.87	$1\frac{5}{8}$	8.80	3	30.00	$4\frac{3}{4}$	75.20
$\frac{13}{16}$	2.20	$1\frac{11}{16}$	9.50	$3\frac{1}{8}$	32.55	$4\frac{7}{8}$	79.21
$\frac{7}{8}$	2.55	$1\frac{3}{4}$	10.20	$3\frac{1}{4}$	35.20	5	83.33
$\frac{15}{16}$	2.92	$1\frac{13}{16}$	10.69	$3\frac{3}{8}$	37.96	$5\frac{1}{2}$	101.68
1	3.33	$1\frac{7}{8}$	11.71	$3\frac{1}{2}$	40.80	6	121.00
$1\frac{1}{16}$	3.76	$1\frac{15}{16}$	12.52	$3\frac{5}{8}$	43.80	7	164.70

Weight of Round Rolled Iron.

One Foot in Length.

Inches.	Pounds.	Inches.	Pounds.	Inches.	Pounds.	Inches.	Pounds.
$\frac{1}{4}$	.16	$1\frac{1}{8}$	3.31	2	10.47	$3\frac{3}{4}$	36.81
$\frac{5}{16}$	.26	$1\frac{3}{16}$	3.69	$2\frac{1}{8}$	11.82	$3\frac{7}{8}$	39.31
$\frac{3}{8}$	.37	$1\frac{1}{4}$	4.09	$2\frac{1}{4}$	13.25	4	41.88
$\frac{7}{16}$	.50	$1\frac{5}{16}$	4.51	$2\frac{3}{8}$	14.76	$4\frac{1}{8}$	44.54
$\frac{1}{2}$	.65	$1\frac{3}{8}$	4.95	$2\frac{1}{2}$	16.36	$4\frac{1}{4}$	47.28
$\frac{9}{16}$	.83	$1\frac{7}{16}$	5.40	$2\frac{5}{8}$	18.03	$4\frac{3}{8}$	50.11
$\frac{5}{8}$	1.02	$1\frac{1}{2}$	5.89	$2\frac{3}{4}$	19.79	$4\frac{1}{2}$	53.01
$\frac{11}{16}$	1.23	$1\frac{9}{16}$	6.40	$2\frac{7}{8}$	21.63	$4\frac{5}{8}$	56.00
$\frac{3}{4}$	1.47	$1\frac{5}{8}$	6.91	3	23.56	$4\frac{3}{4}$	59.06
$\frac{13}{16}$	1.72	$1\frac{11}{16}$	7.46	$3\frac{1}{8}$	25.56	$4\frac{7}{8}$	62.21
$\frac{7}{8}$	2.00	$1\frac{3}{4}$	8.01	$3\frac{1}{4}$	27.65	5	65.45
$\frac{15}{16}$	2.30	$1\frac{13}{16}$	8.60	$3\frac{3}{8}$	29.82	$5\frac{1}{2}$	79.85
1	2.61	$1\frac{7}{8}$	9.20	$3\frac{1}{2}$	32.07	6	95.03
$1\frac{1}{16}$	2.95	$1\frac{15}{16}$	9.83	$3\frac{5}{8}$	34.40	7	129.35

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